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WESTERN OREGON
UNIVERSITY

**Proceedings of the 2006
Academic Excellence
Showcase**

May 31, 2006

Sponsored by:

The Honor Society of Phi Kappa Phi

and

The Program for Undergraduate Research Experiences

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A Message from Dr. John Minahan, President, Western Oregon University

There is no better way to demonstrate the value of a Western Oregon University education than through the work of our students. These abstracts of student presentations represent the outcomes of a university that knows the importance of research and scholarship.

The Academic Excellence Showcase, which features scholarly and creative activities at Western Oregon University, is one of a wide variety of sesquicentennial activities planned for the celebration of our 150th year and the tradition of excellence that we have maintained since 1856.

This celebration of academic achievement underscores the university's aspiration that our students will understand how to employ clarity in writing and speaking, critical thinking, and a strong capacity for lifelong learning in taking what they have learned to the next step.

Through this year's Academic Excellence Showcase, Western Oregon University is demonstrating that undergraduate scholarship and creativity are distinguishing characteristics of our university.

A Message from Dr. Jem Spectar, Provost, Western Oregon University

In this sesquicentennial year, we are thrilled to highlight our students' academic achievements in Western Oregon University's inaugural Academic Excellence Showcase. The event recognizes, affirms and celebrates student scholarship and creativity as students from diverse disciplines present their work to the university community. The exhibits reflect many of the outcomes WOU treasures including, critical thinking, communication, creativity, research and technology skills, discipline-specific knowledge and integrative skills.

In addition to presenting students' work, the showcase is a wonderful opportunity to witness the results of our faculty's dedication to excellence in learning. At the heart of any academic institution is a faculty eager to share its talents, transmit its love for ideas, and catalyze the pursuit of knowledge for the improvement of the human condition. Therefore, each exhibit of this showcase is a testament to the collective efforts of diverse faculty, proof positive of the routine miracles performed by professors everyday, year after year.

A Message from Cornelia Paraskevas, President of the Western Oregon University Chapter of the Honor Society of Phi Kappa Phi – co-sponsor of the 2006 Academic Excellence Showcase

Founded in 1897 and headquartered in Baton Rouge, La., Phi Kappa Phi is the nation's oldest, largest and most selective all-discipline honor society. Phi Kappa Phi inducts annually more than 30,000 students, faculty, professional staff and alumni. The society has chapters on nearly 300 select colleges and universities in North America and the Philippines. Membership is by invitation only to the top 10 percent of seniors and graduate students and 7.5 percent of juniors. Faculty, professional staff and alumni who have achieved scholarly distinction also qualify.

WOU's Chapter 223 was founded in 1979 and held the first initiation on May 9, 1980. For the past 25 years, Phi Kappa Phi—with the support of its members, as well as faculty and staff across campus—has sponsored Academic Excellence on campus, celebrating our students' outstanding research and creative endeavors.

A Message from the Program for Undergraduate Research Experiences – co-sponsor of the 2006 Academic Excellence Showcase

The Program for Undergraduate Research Experiences began in 2004, when a group of faculty formed a taskforce to look at ways we could better institutionalize undergraduate research at Western Oregon University. We define research in its broadest sense to include research, scholarship and creative activities. Institutionalization refers to the process of making undergraduate research part of a structured and well-established system within the university.

The PURE Taskforce identified many ways to help facilitate and enhance undergraduate research experiences. One of the proposed mechanisms was to facilitate greater participation by the entire campus in celebrating our students' accomplishments. The Honor Society of Phi Kappa Phi, which has organized an academic excellence event for years, has partnered with PURE in sponsoring this year's celebration. With our combined resources and through planning provided by an Academic Excellence Showcase Planning Committee, which includes Phi Kappa Phi and PURE members, as well as representatives from across campus, the 2006 Academic Excellence Showcase has been developed. The campus community has responded very favorably to this call for participation as evidenced by this impressive proceedings volume. The Faculty Senate passed a statement encouraging faculty to reassign class time so students could attend the Showcase. More than 20 faculty members volunteered to chair a session in their respective fields and many encouraged their students to participate. As a result, more than 300 students are scheduled to present at this year's Showcase of Academic Excellence. This exciting event celebrates our students' many academic accomplishments. We are very proud of their success and hope you will join us in attending as many of their presentations as possible.

Acknowledgements

The Academic Excellence Showcase Planning Committee gratefully acknowledges the generous support of this program provided by President John Minahan, Provost Jem Spectar, the Office of Public Relations and University Marketing and the Western Oregon University Foundation. Thanks are extended to Deans Stephen Scheck (College of Liberal Arts and Sciences) and Hilda Rosselli (Dean of the College of Education), along with Interim Dean Robert Turner, whose support during the planning process has been unwavering. We are especially indebted to the faculty session chairs and sponsors, listed below, without whom this event would not be possible.

Faculty Session Chairs and Sponsors

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Cardinal, Marita	Paraskevas, Cornelia
Caster, Brian	Pedersen, Peggy
Cempellin, Leda	Perlman, Mark
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Courtney, Arlene	Plec, Emily
Cress, Linda	Rice, Gwenda
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de Chatelet, Ted	Schmidt, Katherine
Dello Stritto, Mary Ellen	Shrestha, Uma
Doellinger, David	Smiles, Tracy
Dolan, Maureen	Smith, Amy
Dutton, Bryan	Smith, Doug
Foster, Dave	Smith, Robin
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The 2006 Academic Excellence Showcase Planning Committee

Charles Anderson
Peter Callero
Jeanne Deane
Bryan Dutton
Cheryl Gaston
Elisa Maroney
Cornelia Paraskevas
John Rector
Jeff Templeton
Rob Winningham

Acknowledgements from individual academic disciplines

Susan McFadden, Dance
Mike Ward, Mathematics
Cheryl Beaver, Mathematics
Sharyne Ryals, Mathematics
Anthony Ryals, Psychology
Linda Kunze, Psychology
Susan Griffin, Teacher Education

Finally, a special and heartfelt thank you to Ms. Jeanne Deane from her Planning Committee colleagues for her untiring energy, patience and support.

Anthropology

Session Chair: Doug Smith

Session Title: Anthropology Senior Thesis Proposals

Location: Instructional Technology Center (IT)

Presentations:

1:00 – 1:30 p.m., IT 211

Danielle Kuehnel

Faculty Sponsor: Doug Smith

Title: The Larger Picture: Writing & Editing to Build Community

1:30 – 2:00 p.m., IT 211

Christy Golden

Faculty Sponsor: Doug Smith

Title: Producing for the Tourist Market: Impacts on Mexican Indigenous Communities

2:00 – 2:30 p.m., IT 211

Laura Soules

Faculty Sponsor: Robin Smith

Title: Homesteading in Central Oregon: Settlement & Perseverance

2:30 – 3:00 p.m., IT 211

Rachel Freel

Faculty Sponsor: Robin Smith

Title: Ancient Pompeii: Not Just a Frozen City

3:00 – 3:30 p.m., IT 211

Megin Ellis

Faculty Sponsor: Robin Smith

Title: Jekyll Island Museum: Socially inclusive, or maintaining the Path of Exclusivity

Anthropology

Session Chair: Doug Smith

Session Title: Anthropology Senior Theses

Location: Instructional Technology Center (IT)

Presentations:

5:00 – 5:30, IT 211

Chris Harker

Faculty Sponsor: Doug Smith

Title: Bonded in Ink

5:30 – 6:00 p.m., IT 211

Nini Callan

Faculty Sponsor: Doug Smith

Title: Mt. Angel Monastery and the Ecology of Migration

6:00 – 6:30 p.m., IT 211

Heather Maxwell

Faculty Sponsor: Doug Smith

Title: Identity Creation in Skateboarders

6:30 – 7:00 p.m., IT 211

Erica Meyer

Faculty Sponsor: Doug Smith

Title: Art Harvest and the Creation of Community

7:00 – 7:30 p.m., IT 211

William Tornquist

Faculty Sponsor: Mark Moritz

Title: On the Transition & Rite of Passage into Retirement

Art

Session Chairs: Rebecca McCannell and Leda Cempellin

Session Title: Outstanding Students in Art History

Location: Campbell Hall (CH)

Presentations:

9:00-9:15 a.m., CH 101

Alaina Steiner

Faculty Sponsor: Leda Cempellin

Title: Judith and Susanna: From Biblical Heroines to Aesthetic Whores?

Abstract: This presentation will involve an analysis of paintings of the Biblical stories of Susanna and the Elders and of Judith and Holofernes. I intend to examine the stories and treatments throughout the 16th and 17th century with an emphasis on the incongruent treatments that exist; the feminist treatments, the chauvinistic treatments, and the few that combine or fall in between. My contention is that both feminist and misogynistic treatments show inaccuracies to the text but that the treatments by the artist Artemisia Gentileschi go beyond the usual misinterpretations to present these women as recognizable narrative characters while simultaneously emphasizing their power and nobility.

9:20-9:35 a.m., CH 101

Jessica Leach

Faculty Sponsor: Leda Cempellin

Title: Cubism and Futurism

Abstract: The era from which Cubism and Futurism emerged was characterized by scientific, technological, philosophical, and political developments which challenged the traditional perception of truth. As a result, western society was without the verities which had sustained it since the Renaissance, and also without a new frame of reference for interpreting the outside world. For a brief but incredibly fertile window of time, the task of defining reality was left to the artists. In my presentation, I will explore the genesis, maturation, and continuing importance of this redefinition through the plastic expressions and aesthetic philosophies of Cubism and Futurism.

Art

Session Chairs: Rebecca McCannell and Jodie Raborn

Session Title: Outstanding Students in Art

Location: Campbell Hall (CH)

Presentations:

10:00 – 10:20 a.m., CH 101

Laura Buchan

Faculty Sponsor: Rebecca McCannell

Title: Art Portfolio presentation

10:25 – 10:45 a.m., CH 101

Daniel Hambley

Faculty Sponsor: Rebecca McCannell

Title: Art Portfolio presentation

Photograph of Art Work:
*Untitled sculpture made with
Maple*



Art

Session Chairs: Rebecca McCannell and Jodie Raborn

Session Title: Professional Concerns Portfolio

Presentations

Location: Campbell Hall (CH)

Presentations:

11:00 – 11:12 a.m., CH 101

Shelly Holbert

Faculty Sponsor: Jodie Raborn

Title: Portfolio Presentation

11:15 – 11:27 a.m., CH 101

Jennifer Thomas

Faculty Sponsor: Jodie Raborn

Title: Portfolio Presentation

11:30 – 11:42 a.m., CH 101

Katie Volk

Faculty Sponsor: Jodie Raborn

Title: Portfolio Presentation

12:30 – 12:42 p.m., CH 101
Yoko Sugiyami
Faculty Sponsor: Jodie Raborn
Title: Portfolio Presentation

12:45 – 12:57 p.m., CH 101
Autumn Hayball
Faculty Sponsor: Jodie Raborn
Title: Portfolio Presentation

1:00 – 1:12 p.m., CH 101
Emily Tabachnick
Faculty Sponsor: Jodie Raborn
Title: Portfolio Presentation

1:15 – 1:27 p.m., CH 101
Eric Parks
Faculty Sponsor: Jodie Raborn
Title: Portfolio Presentation

1:30 – 1:42 p.m., CH 101
Christine Ferreira
Faculty Sponsor: Jodie Raborn
Title: Portfolio Presentation

1:45 – 1:57 p.m., CH 101
John Aikens
Faculty Sponsor: Jodie Raborn
Title: Portfolio Presentation

2:00 – 2:12 p.m., CH 101
Jake Keller
Faculty Sponsor: Jodie Raborn
Title: Portfolio Presentation

2:15 – 2:27 p.m., CH 101
Kristina Passadore
Faculty Sponsor: Jodie Raborn
Title: Portfolio Presentation

Biology

Session Chair: Bryan Dutton
Session Title: Biology Symposia
Location: Natural Sciences (NS)

Presentations:

2:00 – 2:30 p.m.; NS 103

Terrance Manning II
Faculty Sponsor: Sarah Boomer

Title: Attempts to Cultivate RLMO Bacteria Using Site-Specific Water Chemistry Data

Abstract: My research focuses on novel red Chloroflexi bacteria in Yellowstone hot springs (pH 7.5-9, 37-65°C). Given that these bacteria have never been grown in the laboratory, my goal was to make and test new media based on water chemistry profiles from their natural habitat, Hillside Springs (pH 8, 54°C). Site-specific media did not support red Chloroflexi growth, but these media enriched for Proteobacteria, Gram Positives, and green Chloroflexi. A co-culture derived from source water enrichments retrieved Chloroflexus species 396-1, a Yellowstone green Chloroflexi. Future cultivation studies should include improved physical separation methods and understanding the composition of the source water.

2:30 – 2:45 p.m., NS 103

Kelly Hatteberg and Peter McBride
Faculty Sponsor: Karen Haberman

Title: Diet Analysis of Formalin-Preserved Krill

Abstract: Antarctic krill (*Euphausia superba*) are shrimp-like crustaceans and prey for many predators in Antarctic waters. Previous studies show that krill feed on one type of phytoplankton, diatoms, in preference to another type, Phaeocystis. Our investigation involves modifying the immunoassay developed for frozen krill so that it will work on formalin-preserved krill. This will enable us to examine the diets of krill collected over many years and compare their diets to growth and reproduction in those years. We have grown and cultured *P. antarctica* and diatoms to develop this assay. Initial results indicate that the technique will work on formalin-preserved samples.

Biology

Session Chair: Bryan Dutton
Session Title: Biology Research Posters
Location: Werner University Center (WC)

Posters:

9:00 – 11:30 a.m., WC Pacific Room

Amber Stefani and Michelle Swanick
Faculty Sponsor: Michael LeMaster

Title: The Effect of Capture Stress on White Blood Cell Counts in Male Garter Snakes

Business & Economics

Session Chairs: Kristina Frankenberger (Business)
and John Leadley (Economics)

Session Title: Business & Economics Showcase

Location: Oregon Military Academy (OM)

Presentations:

10:00 – 10:15 a.m., OM 103

Juan Lemus

Faculty Sponsor: John Leadley

Title: Can small market teams win in major league baseball?

Abstract: This paper tests the hypothesis that Major League Baseball teams located in smaller cities are less competitive than teams in larger markets. The size of the home market, measured by city population, is found to have a statistically insignificant effect on winning percentage.

10:20 – 10:40 a.m., OM 103

Melissa Millsap

Faculty Sponsor: Kristina Frankenberger

Title: Working with and learning from the Salem Chamber of Commerce: an intern's story.

Abstract: Melissa Rosier helped the Salem Chamber of Commerce develop its mailing list and sponsor its trade show. In turn, the Chamber helped Melissa develop her speaking skills. Learn more about the mutual student-business benefits of participating in a student internship.

10:40 – 10:55 a.m., OM 103

Student team, BA 455w Advertising Writing: TBA

Faculty Sponsor: Kristina Frankenberger

Title: An advertising campaign: strategy to execution.

Abstract: Students in BA 455w, Advertising Writing, work in teams to plan and execute a mini-advertising campaign (print, radio & TV ads) for a product of their choice. This session will showcase the class's best work, as determined by a vote by class members.

Chemistry

Session Chair: Arlene Courtney

Session Title: Chemistry Senior Seminars

Location: Natural Science Building (NS)

Presentations:

8:30 – 9:30 a.m., NS 103

Katie Hawks

Faculty Sponsor: Arlene Courtney

Title: The Synthesis of Biodiesel and its Benefits to the Environment

Abstract: Biodiesel is being investigated as a potential replacement for the fossil fuels which provide energy for transportation. This seminar will focus on the synthesis of biodiesel providing an in depth look at the key reactants and products that go into its production. A case study of the home production of biodiesel will be presented.

9:30 – 10:30 a.m., NS 103

Brenda Vaandering

Faculty Sponsor: Arlene Courtney

Title: Genipin: A Natural Cross-Linking Reagent

Abstract: Genipin is a hydrolytic product of geniposide, which is found in the fruit of Gardenia, *jasminoides* Ellis. The components of the fruit have been used in traditional Chinese medicine and as a blue colorant by food industries in East Asia. The structure of genipin was discovered in the 1960's. Genipin has been investigated as a cross-linking material in many biological applications because it is a naturally occurring, biodegradable molecule with low cytotoxicity. Recent explorations into the use of genipin cross-linked gelatin for the use as a bioadhesive, wound dressing, as bone substitutes, and as an aid to help regenerate peripheral nerves, have shown it to have potential as a new and safe cross-linking agent. Gluteraldehyde has been the most commonly used cross-linking agent, but concerns about its toxicity have encouraged the testing of new cross-linking methods such as genipin. In the area of forensic science, genipin is being examined for use in a new technique for developing latent fingerprints on paper products. Because it is an environmentally friendly, natural product, it shows great potential over the currently used reagent being, ninhydrin.

10:30 – 11:30 a.m., NS 103

Whitney Coffey

Faculty Sponsor: Arlene Courtney

Title: ICP-OES (Inductively Coupled Plasma-Optical Emission Spectroscopy): Instrumental Analysis of Beryllium Particulates

Abstract: Beryllium ore is used in many industries, including aerospace, metallurgy and the nuclear industry. However, fumes and dust from beryllium pose a health hazard. For this reason, sampling and clean-up methods of beryllium particulates are of importance to any laboratory with a history of beryllium work. Inductively coupled plasma-optical emission spectroscopy, referred to as ICP-OES, has proven the most universally effective instrument for beryllium particulate analysis. The focus of this seminar will be on the role of ICP-OES in analysis of beryllium particulates, along with methods for eliminating common interferences during analysis. Information will be provided regarding the health hazards associated with beryllium, along with the basic components and operation of an ICP-OES instrument.

1:00 – 2:00 p.m., NS 103

Aaron Vorderstrasse

Faculty Sponsor: Arlene Courtney

Title: Photocatalytic Reactions of Titanium Dioxide (TiO₂) - Current and Future Applications

Abstract: TiO₂ is a stable semi-conducting photo-catalyst of great modern potential. In water, TiO₂ reacts with UV light to produce hydrogen gas. When affixed to windows, clothing, or other surfaces, TiO₂ degrades organics leaving the surface sparkling, clean and disinfected. Doping titanium dioxide with various other elements improves its efficiency and allows for the same effects under standard lighting.

Computer Science

Session Chair: Charles Anderson

Session Title: Computer Science Presentations

Location: Instructional Technology Center (IT)

Presentations:

11:00 – 11:15 a.m., IT 305

Alex Ichinoe and Mari Ortega

Faculty Sponsor: Charles Anderson

Title: Corvallis Mobile Home Park Security & Technology Upgrade

Abstract: This project is the result of a six-month process that resulted in an upgrade solution for the Corvallis Mobile Home Park. The business requested an affordable solution for

their security, business and internet needs. Global Dynamix met this challenge by creating a security solution that included digital technologies, a wireless internet solution that would act as a value-add to the business and an office technology solution that would assist in bringing the business away from paper and pen.

11:15 – 11:30 a.m., IT 305

Alan Brian Davis

Faculty Sponsor: Charles Anderson

Title: A Cost Optimal Quicksorting Algorithm and its Implementation on a Shared Memory Parallel Computer

Abstract: This presentation discusses a parallel quicksort algorithm that is cost optimal, in average, using $O(n/\log(n))$ processors. The cost optimality is mainly due to a cost optimal partitioning algorithm that utilizes all the processors when partitioning the array. A temporary array of the same size as the number of processors is needed during the partitioning process. The prefix sums are used to determine where a processor can copy its data. We prove that using $n/\log(n)$ processors, the algorithm has an average case complexity of $O(\log(n)^2)$, where n is the size of the data array. We will also discuss the implementation of our algorithm on a shared memory parallel computer.

11:30 – 11:45 a.m., IT 305

Joe Yancy

Faculty Sponsor: Jie Liu

Title: Salem Hospital Care Scheduler

Abstract: This is my Senior Project for the Computer Science division of WOU. It is a web based application created using Microsoft Visual Studio 2005 (C# programming language) and SQL Server 2005. This project took a problem from a real world work situation and developed a possible solution. The project allowed usage of multiple aspects of the Computer Science field including database design, software design, programming, and web design.

11:45 a.m. – 12:00 p.m., IT 305

Frank Lister

Faculty Sponsor: Jie Liu

Title: Web Page Development for On-Line Movie Rentals

Abstract: This will demonstrate how you can develop a web site using Microsoft Visual Studio 2005 and Microsoft SQL Server to create a web site to maintain an inventory of items, customers and employees and a record of transactions of sales or rentals.

Dance

Session Chair: Sharon Oberst

Session Title: Academic Excellence in Dance

Location: Maple Hall (MH)

Presentations:

10:10 -10:20 a.m., Maple Hall

Melissa Martin

Faculty Sponsor: Sharon Oberst

Title: Rose Trio

Abstract: This choreographic work is a senior project that was performed in the Spring Dance Concert 2006. The process began during Group Choreography class in fall term of 2005 and continued throughout winter and spring terms. Each of the three dancers, Jenna Logerwell, Madeline Smith and Rebecca Chadd, has a distinctive style of movement, that was explored throughout the composition of this work.

10:20 -10:30 a.m., Maple Hall

Jessica Sanford

Faculty Sponsor: Susan McFadden

Title: If Men Could Fly: David Parsons

Abstract: In January of 2005 modern dancers Marc and Pam Seigle of Oregon Dance Theatre came to set the David Parsons piece "Sleep Study" on dance students at WOU. I was honored to have been selected to be one of those dancers. While enrolled in the dance course, Evolution of Modern Dance, I researched and wrote this paper about the life and significant contributions David Parsons has made on the art form.

10:30 -10:40 a.m., Maple Hall

Jessica Sanford

Faculty Sponsor: Sharon Oberst

Title: Daydream

Abstract: The original idea for the movement in this piece developed from an exercise in Group Choreography class. The class was the final in a sequence of composition courses. After working on the piece in the fall, I saw a greater potential in the movements and decided to continue to develop the work throughout winter and spring terms. My inspirations and intent for the movement vary from music, to nature, to various other themes that are presented throughout the dance.

10:40 -10:50 a.m., Maple Hall

Madeline Smith

Faculty Sponsor: Susan McFadden

Title: Rudolf Nureyev: Breaking the Rules

Abstract: Rudolf Nureyev was a legendary ballet danseur who was committed mentally, physically and emotionally to his life of ballet dancing. His great determination, and the sacrifices that he made in life enabled him to change the world of ballet. He became one of the most influential

dancers and choreographers of his time. Dancing for the Kirov Ballet Company, changing the technical standard and roles of male dancers, and working with modern dance choreographers such as Martha Graham and José Limon were just some of the amazing feats that he accomplished during his long career in ballet.

10:50 -11:00 a.m., Maple Hall

Jenna Logerwell

Faculty Sponsor: Susan McFadden

Title: Cartwheels and Quicksilver: A Profile of Marie Rambert

Abstract: A vibrant person and dancer, Marie Rambert was responsible for the birth and success of England's longest running professional dance company. Her life was filled with adventure and wonderful experiences, and she was constantly surrounded and befriended by some of the most talented and influential artists of the 20th Century. Shaped by these people and experiences, Rambert pursued her dream to dance and teach, ultimately producing some of the most prominent British choreographers and dancers of that century.

Earth Science

Session Chair: Jeffrey Templeton

Session Title: The Indonesian Earthquake and
Tsunami disaster of December 2004: Implications
for the Pacific Northwest

Location: Natural Sciences (NS)

Presentations:

9:00 – 9:10 a.m., NS 101

Jeff Templeton

Title: Introduction to Session

9:10 – 9:30 a.m., NS 101

Jeffrey Kent

Faculty Sponsor: Jeff Templeton

Title: Disaster Along Time Coming: Tectonic Setting of the Asian Tsunami 2004

Abstract: The 2004 Asian Tsunami occurred in a subduction zone along the Sunda trench. The Indo-Australian plate is subducting under the Eurasia plate, which consists of the Burma subplate and Sunda subplate in the southern region. The age difference of the Indo-Australian plate correlates to a change in subduction rates along the Sunda trench. Plate movement becomes more oblique along the Sunda trench as it migrates northward, and has a direct effect on the fault characteristics. Earthquakes occurring north of the epicenter in 1881 (M~7.9) and 1941 (M~7.9), are evidence for the potential of a great earthquake along the Sunda trench.

9:30 – 9:50 a.m., NS 101

Katherine Noll

Faculty Sponsor: Jeff Templeton

Title: Rupture Propagation of the 26 December 2004 Sumatra-Andaman Earthquake

Abstract: The Sumatra-Andaman earthquake, moment magnitude $M_w = 9.0-9.3$, originated northwest of Sumatra. Rupture of the thrust fault between the underlying Indo-Australian plate and the Eurasian plate propagated northward for 1300 km at a velocity of 2-3.3 km/s. Slip displacement and propagation velocity along the entire fault zone can be partitioned into three distinct regions. These regions are identified by morphology of the Benioff zone and physical characteristics of the subducting slab. The variability of slab characteristics and fault geometry result in discontinuities that affect the location of the hypocenter, propagation style and geographic extent.

9:50 – 10:00 a.m., Break

10:00 – 10:20 a.m., NS 101

Rachel Pirot

Faculty Sponsor: Jeff Templeton

Title: Disturbance in the Deep: Generation and Propagation of the Sumatra Tsunami 2004

Abstract: The Asian Tsunami of 2004 was a surface gravity wave generated by ocean floor perturbation related to a magnitude 9.2 earthquake off the coast of Sumatra. Uplift of the ocean floor displaced the entire water column creating the tsunami. The main crest propagated outward at a bearing of 250° W with recorded speeds up to 800 km/h. Frictional drag on the base of the wave led to slowing in coastal regions. Topographic variations of the ocean floor in impacted areas produced differences in wave height ranging from three to twenty-five meters which accounts for dissimilarities between amounts of destruction.

10:20 – 10:40 a.m., NS 101

Dane Wagner

Faculty Sponsor: Jeff Templeton

Title: 2004 Asian Tsunami: Damage, Death, and Destruction

Abstract: On 27 December 2004 a tsunami generated by a 9.1 (Richter scale) earthquake along the India-Burma subduction zone swept through the Indian Ocean. The tsunami left a path of unprejudiced destruction. Estimated reports by the UN include over 230,000 dead and 1.68 million displaced. Earthquake and tsunami damaged buildings, infrastructure, and lifelines throughout the ocean basin. Environmental impacts include damage to coastal marine ecosystems, groundwater, loss of land due to erosion, and loss of arable soils by saltwater intrusion. Studies are ongoing to determine the impacts the tsunami has had on social, economic, and environmental aspects of the region.

10:40 -11:00 a.m., NS 101

Shelby Collins

Faculty Sponsor: Jeff Templeton

Title: Tsunami warning systems, its technology, and preparedness of the South East Asian region

Abstract: Preparedness for tsunami hazards in the region of South East Asia revolve around implications for earthquake risks and subsequent warning systems. Earthquake history, tsunami history and behavior, flood and tidal data, continental and ocean topography, and sensory technology all figure into the process of assessing the potential risks for tsunami hazards. Technology that contributes to tsunami warning systems includes remote sensing techniques such as satellite telemetry, sonar, and G.O.E.S. communication. Regional sensory technology of tidal platforms and seismographs provide the basis for a warning network. These scientific instruments collect data from stations around the Earth, reporting information to both local authorities and the Pacific Tsunami Warning Center.

Earth Science

Session Chair: Stephen Taylor

Session Title: Environmental Geology of the Upper Klamath Basin: Crisis at the Crossroads of Science and Society

Location: Werner University Center (WC)

Posters:

1:00 – 3:30 p.m., WC Pacific Room

Stephen Taylor

Title: Introductory/overview poster – Environmental Geology of the Upper Klamath Basin: Crisis at the Crossroads of Science and Society

1:00 – 3:30 p.m., WC Pacific Room

Renae Burger

Faculty Sponsor: Stephen Taylor

Title: Welcome to the Klamath Basin – Physiographic Setting

Abstract: My poster is going to be an overview of the Klamath Basin. I'm sure many people have no idea what or where the Klamath Basin is so the purpose of my poster is to familiarize people with this area. I will do this by providing maps, pertinent figures and pictures of this lovely place. Some other information included will be a physical description of the landscape, the topography, climate, vegetation and soil types. Everything you want to know about the physiography of the Klamath Basin will be presented.

1:00 – 3:30 p.m., WC Pacific Room

Dane Wagner

Faculty Sponsor: Stephen Taylor

Title: Geologic Setting of the Upper Klamath Basin

Abstract: The Klamath Basin is located between the Cascade Mountain Range and the Klamath Mountains. The Cascades are formed by an offshore subduction zone, the Juan De Fuca Plate is subducting underneath the North American Plate. The Klamath Mountains consist of exotic terrains that were amalgamated onto the North American Plate via accretionary tectonics. The Klamath Basin is in the northwestern most part of the basin and range province. The upper Klamath Basin consists largely of Pleistocene lakebeds surrounded by ancient playa lake terraces. Preliminary geologic mapping in the basin has shown that basaltic volcanic centers are flanked by small sedimentary basins, along with active tectonic faults.

1:00 – 3:30 p.m., WC Pacific Room

Dan Hidy

Faculty Sponsor: Stephen Taylor

Title: Cultural History, Land Use and Land Cover in the Upper Klamath Basin

Abstract: The Upper Klamath Basin is culturally diverse and home to many socioeconomic groups with different interests. There are Native peoples and also descendents of early European settlers or homesteaders. With the recent water crisis in the region, different interest groups are trying to hold on to their historic land use and water rights. This presentation examines the historic and modern land use in the area, and will also land cover classification of the Upper Klamath Basin. I will also include an overview of the economic census for the region and try to show who will be suffering the greatest losses in this environmental disaster area.

1:00 – 3:30 p.m., WC Pacific Room

Andrew Akerson

Faculty Sponsor: Stephen Taylor

Title: Life or Death: Environmental Concerns with Dams in the Klamath Basin

Abstract: From the turn of the 20th century, construction of dams in the Klamath Basin of south-central Oregon and north-central California has evolved. The structures vary in size and purposes. Initially generated for irrigation and flood control, these dams helped develop one of Pacific Northwest's agricultural communities. Unfortunately, the salmon which migrate through the Klamath Basin have decreased in population and are now endangered species. The dams are a direct threat to the salmon. Removal of dams may be necessary, however, there would be losses to the community and local Native American tribes. Therefore, legal issues have developed.

1:00 – 3:30 p.m., WC Pacific Room

Rachel Pirot

Faculty Sponsor: Stephen Taylor

Title: Precarious Balance: Surface Water Budgets for the Upper Klamath Basin

Abstract: Upper Klamath Lake is the primary source of surface water for the Klamath Basin. Lake inflow is supplied by the Williamson and Wood Rivers, as well as groundwater input via springs and seeps. Outflow consists of high evaporation rates and divergence of water either over Link River Dam or through the "A" canal. Surface water uses include streamflow maintenance, irrigation, hydro-electric power, flood control releases, reservoir storage and wildlife refuges. Climactic variations have a major impact on flows. The Klamath Basin has a high demand for water, but not a sufficiently stable supply.

1:00 – 3:30 p.m., WC Pacific Room

Caleb Downing

Faculty Sponsor: Stephen Taylor

Title: Groundwater in the Klamath Basin: An Unpredictable Resource

Abstract: Groundwater in the Upper Klamath Basin has always been an issue. The groundwater can be found in four different aquifers scattered throughout the basin. These include the sedimentary aquifer unit, the volcanic centers aquifer, the lower basalt aquifer (composed of basalt and volcanic ejecta), and the volcanic ash aquifer. The aquifers range from unconfined to confined, based on their composition. Water table levels tend to fluctuate seasonally with an average around 4026 feet above sea level. In terms of groundwater usage, 106.13 Mgal/day of groundwater was pumped for irrigation in the year 2000. Even during drought cycles, over half the Klamath basin (200,000 acres) is irrigated.

1:00 – 3:30 p.m., WC Pacific Room

Katherine Noll

Faculty Sponsor: Stephen Taylor

Title: Land Use Impacts on Water Quality in the Klamath Basin

Abstract: Degrading water quality in the Klamath Basin is due to the destruction of wetland and riparian zones. Wetland reclamation and elimination of riparian areas has increased nutrient and sediment loading, erosion, water temperature, turbidity in catchment basins. High phosphorus and pH levels, unionized ammonia, and depressed dissolved oxygen levels are the main water quality concerns. Blue-green algae blooms, a result of high phosphorus levels, endangers the survival and reproduction of aquatic organisms. Klamath Basin water quality has degraded within the last century due to human land abuse. Restoration actions within the basin are currently being delineated through collaborative research. In the mean time, water quality continues to suffer.

1:00 – 3:30 p.m., WC Pacific Room

Cody Hoehna

Faculty Sponsor: Stephen Taylor

Title: Fisheries and Aquatic Ecosystem of the Klamath Basin

Abstract: The Klamath Basin has a wide variety of anadromous fish. It encompasses all species of salmon, steelhead and other trout, and two types of sucker fishes, very important to the Klamath tribes. The basin was once the third highest producer of commercially fished salmon and steelhead. Today some of these fish stocks are almost depleted, such as two sucker species which live in Upper Klamath Lake, and Coho salmon, which are listed as Endangered Species. There are a number reasons for these declines in fish populations, such as water loss, dams, pollution and over fishing. The way we deal with this economically important resource is vital to fisheries survival and repopulating the numbers that once existed.

1:00 – 3:30 p.m., WC Pacific Room

Aaron Crockett

Faculty Sponsor: Stephen Taylor

Title: Too Many Hands in the Cookie Jar: Law, Politics and the Flow of Water in the Klamath Basin

Abstract: Water law in Oregon, as in much of the west, is fundamentally simple. First come, first served is the underlying principle (Doctrine of Prior Appropriations). The fundamental issue in the Klamath Basin is that there is not enough water to fulfill the multitude of promises made. The political terrain in the Klamath Basin is treacherously complex. Federal, state and private concerns are tangled in a web of conflicting needs and unclear policies. This presentation explores the various agencies, institutions and stakeholders involved in the Klamath Basin with a focus on the current state of adjudication of conflicting water claims. The purpose of this study is to illuminate this complex legal web and facilitate finding solutions.

1:00 – 3:30 p.m., WC Pacific Room

Trever Redding

Faculty Sponsor: Stephen Taylor

Title: A Summary of Environmental Issues that Plague the Upper Klamath Basin

Abstract: Environmental problems have existed in the Klamath Basin since the late 1980s, when select fish species were listed as endangered species. Fisheries decline was exacerbated in 2002, when a large population of sixty thousand fish was killed trying to migrate to their spawning grounds. One of the reasons is that dams have been put on the rivers in the Klamath Basin, however no water ways were made for fish passages. Not only fish are being affected, but also the birds that use the local wildlife refuge are dying because there is not enough water to support their migration south.

Earth Science

Session Chair: Jeffrey Templeton

Session Title: Volcanoes of the World

Location: Werner University Center (WC)

Posters:

1:00 – 3:30 p.m., WC Pacific Room

Andrew Akerson

Faculty Sponsor: Jeffrey Templeton

Title: Mount Pelee: One of the World's Deadliest Volcanoes

Abstract: Located in Martinique, West Indies, towers Mt. Pelee. This stratovolcano is part of an island arc approximately 530 miles long where the Caribbean tectonic plate meets the Atlantic plate. In 1902, just 49 years after the first historic evidence of volcanic activity, Mt. Pelee violently erupted, destroying the surrounding villages. Although evidence foreshadowing the outburst were noticed, there were no volcanologists on the island to estimate the potential time and path of an eruption. The governor did not evacuate the island and there was a volcanic massacre killing approximately 30,000 people between May 8th and August 30th.

1:00 – 3:30 p.m., WC Pacific Room

Jason Allen

Faculty Sponsor: Jeffrey Templeton

Title: Raining Hell!

Abstract: Death from above! Almost eight thousand years ago, in the Southern area of modern-day Oregon, a massive eruption displaced most of the contents of Mt. Mazama into the sky. The ash and pumice spread as far as Canada, and the area surrounding the volcano was devastated. After the Stratovolcano collapsed, we now have a clear, deep lake. It may have had a violent past, but aside from the eruptions that formed the small islands in the lake, this raging fount is corked.

1:00 – 3:30 p.m., WC Pacific Room

Robin Bunse

Faculty Sponsor: Jeffrey Templeton

Title: A Day to Remember: Krakatau Eruption of 1883

Abstract: The 1883 eruption of the volcanic island Krakatau, in Indonesia, is said to have generated the loudest sound ever historically recorded by human beings. On August 26 a series of cataclysmic explosions began, ending on August 27 with massive and devastating repercussions. On this day, the northern two-thirds of the island collapsed, generating a series of immense pyroclastic flows and enormous tsunamis that ravaged adjacent coastlines. The events that began on August 26 would mark the last 24 hours on earth for more than 36,000 people, and the destruction of hundreds of coastal villages and towns. This poster will follow the days leading up to this devastating event and the memory left behind.

1:00 – 3:30 p.m., WC Pacific Room

Aaron Crockett

Faculty Sponsor: Jeffrey Templeton

Title: Big Obsidian Flow: the latest act in the story of Newberry volcano

Abstract: Newberry Volcano, 20 miles outside of Bend, Ore., is one of the largest Quaternary volcanoes in the U.S. A basaltic shield volcano prior to the Pleistocene, its Holocene activity has been primarily rhyolitic. The most recent eruptive activity occurred about 1300 years ago when Big Obsidian Flow erupted within the caldera near the rim. When it came to rest it covered approximately 700 acres and is about 20 meters thick. Though old in human terms, Big Obsidian Flow represents but the most recent stage in this active and evolving volcano.

1:00 – 3:30 p.m., WC Pacific Room

Glenn Grimes

Faculty Sponsor: Jeffrey Templeton

Title: Mt. Hood: To be feared or not to be feared

Abstract: Mount Hood is the tallest mountain in Oregon (11,237 feet, 3,426 m). It is 45 miles Southeast of Portland. Most of the volcano is andesite composition. The main cone of Mount Hood formed about 500,000 years ago. In the last 15,000 years the volcano has had four eruptive periods. During the most recent eruptive period, 250-180 years ago, lava domes collapsed and produced numerous pyroclastic flows and lahars which buried the southwest flank of the mountain. Mount Hood is part of the Cascade Range and the Ring of Fire. It was formed at a subduction zone; it is on the North American plate.

1:00 – 3:30 p.m., WC Pacific Room

Dan Hidy

Faculty Sponsor: Jeffrey Templeton

Title: Volcanic Hazards Associated With Seattle/Tacoma and Mt. Rainier

Abstract: Mt. Rainier, 14,410 feet, is just south of Seattle and Tacoma and is an active volcano. The activity associated with the mountain that has most people worried is not a major eruption. Though this would be catastrophic to the people living nearby, the main worry is lahars. Lahars are huge debris flows that come down the mountain when there is a sudden heating of glacial ice. Rainier has produced some major lahars and the most recent one dates back only 5,600 years ago when it sent a wall of debris 600 feet thick in some places down towards the areas where Seattle and Tacoma reside today. The real problem with these lahars is that they can be triggered without notice and do not even need an eruption to occur.

1:00 – 3:30 p.m., WC Pacific Room

Cody Hoehna

Faculty Sponsor: Jeffrey Templeton

Title: Mt. St. Helens Dome Growth

Abstract: Mt. St. Helens is an active volcano that is well studied, located in the Pacific Northwest. The recent eruption in 1980 has allowed scientists to examine and further their knowledge of volcanoes. St. Helens has a long history of eruptive behavior with the most recent activity being in 2006. Mt. St. Helens has the potential to rebuild and reach a similar or higher magnitude of eruption than that of the 1980 eruption. Since the removal of 400 meters of the original summit in 1980, there has been a significant amount of dome growth in the crater, which has been extensively monitored by geologists and continues everyday.

1:00 – 3:30 p.m., WC Pacific Room

Hunter Maxwell

Faculty Sponsor: Jeffrey Templeton

Title: Lahars and the Eruption of Nevado Del Ruiz, Great Danger of the Past, Present And Future

Abstract: Lahars represent a clear and present danger to peoples living under active volcanoes. A study of the one of the most deadly eruptions of our time, the eruption of Nevada Del Ruiz, is key to understanding lahars' behavior. Analyzing composition, paths, pulse frequency, durations and other lahars related data recorded from the 1985 eruption, we can model the behavior of these lahars and prevent potential catastrophes.

1:00 – 3:30 p.m., WC Pacific Room

Carly Miller

Faculty Sponsor: Jeffrey Templeton

Title: The Eruption of Mount Vesuvius in 79 AD and the Archaeological Significance

Abstract: The eruption of Mount Vesuvius in 79 AD devastated Pompeii and Herculaneum in six meters of ash and lapilli. The pyroclastic debris blanketed the towns, asphyxiated and incinerated those that were unable to escape, as the victims of a hellish hot rain were forced to submit to the inferno. Archaeologists did not begin to dig until the nineteenth century in Pompeii and Herculaneum. Both towns provided a snapshot of Roman history and uncovered many secrets about the culture that had long been unknown. Vesuvius does not rest today and sits in southern Italy at the convergence of the African plate beneath the Eurasian plate.

1:00 – 3:30 p.m., WC Pacific Room

Melissa Moch

Faculty Sponsor: Jeffrey Templeton

Title: Pyroclastic Flows at Mount Katmai, Novarupta and the Valley of Ten Thousand Smokes

Abstract: Mount Katmai, Novarupta and the Valley of Ten Thousand Smokes are located along the Aleutian Trench and border the Ring of Fire on the Alaskan Peninsula. The eruption of 1912 collapsed the Katmai dome and the Novarupta vent, producing pyroclastic flows which created the Valley of Ten Thousand Smokes. Mount Katmai and the Novarupta crater are overlapping edifices that are the most productive, most explosive, and most compositionally varied (basalt to rhyolite) in the cluster of Aleutian stratovolcanoes. The greatest hazards posed by this volcanic region are encounters between aircraft and volcanic ash.

1:00 – 3:30 p.m., WC Pacific Room

Trever Redding

Faculty Sponsor: Jeffrey Templeton

Title: Past Eruptions of Yellowstone and Future Predictions

Abstract: In 2.3 million years Yellowstone National Park has erupted three times, the first was around 2.3-2.1 Ma, the second was around 1.3 Ma (million years), and the last was .640 Ma. Rhyolitic magma inserts into a caldera or a magma chamber which comes to very shallow depths under the surface. These eruptions have been very catastrophic to the surrounding areas releasing an explosive eruption of rhyolite, rock, and ash. There is evidence that these eruptions have occurred before by looking at the surrounding rock. The average occurrence of the eruption of the Yellowstone caldera is about .600 Ma, and the last eruption was .640 Ma, another could come soon.

1:00 – 3:30 p.m., WC Pacific Room

Daniel Shell

Faculty Sponsor: Jeffrey Templeton

Title: Potential Hazards of Mount Shasta

Abstract: The deposits of a massive debris flow underlie 675 square kilometers of valley floor north of Mount Shasta. At least 300,000 years old, this debris slide came from an andesitic stratovolcano, presumed to be ancestral Mount Shasta. The frequency of eruption within the last 10,000 years is at least one major eruption every 800 years. Eruption threatens the communities of Weed, Mount Shasta, McCloud, and Dunsmuir. Future eruptions will likely produce lithic ash, fallout tephra, lava flows, domes, and pyroclastic flows. Low, and flat lying ground within 20 kilometers of the summit will be subject to debris flows.

1:00 – 3:30 p.m., WC Pacific Room

Mark Spiering

Faculty Sponsor: Jeffrey Templeton

Title: Tambora – The Year Without A Summer

Abstract: For my poster presentation I will be researching the 1815 eruption of Tambora, a stratovolcano in Sumbawa, Indonesia. Ranking a 7 on the VEI scale, the eruption of Tambora is classified as “super colossal.” Prior to the 1815 eruption, the volcano may have been as tall as 13,000 feet. The eruption expelled about 150 km³ of ash, roughly 150 times more than the eruption of Mt. St. Helens in 1980, and reached more than 800 miles from the volcano. With more than 92,000 related deaths, the eruption of 1815 goes down in history as one of the most catastrophic eruptions ever.

1:00 – 3:30 p.m., WC Pacific Room

Tassay Stephens

Faculty Sponsor: Jeffrey Templeton

Title: Mount Pinatubo Eruption of 1991

Abstract: Mt Pinatubo is located in the Philippines above a subduction zone. There are two parts to Mt Pinatubo's history, the first part is from 35,000 years ago to anything before that. There don't seem to be any major eruptions prior to 35,000 years ago. This eruption however started the 2nd half of the volcano's history which is its largest eruption yet. Mt Pinatubo is known to erupt pyroclastic material made of andecite and dacite. There was another eruption 500 years prior to the 1991 eruption which is a short dormancy for a volcano of this size. When it does erupt it tends to erupt large amounts of relatively cool ash and dacite magmas.

1:00 – 3:30 p.m., WC Pacific Room

Patrick Stephenson

Faculty Sponsor: Jeffrey Templeton

Title: Unzen, Lava Domes and Pyroclastic Flows

Abstract: Mt. Unzen situated on the Eastern edge of Kita-Kyushu is a subduction volcanism related composite volcano. During May of 1991 a lava dome began building on the summit of the mountain. As the dome grew in size its edges began to collapse and fall down the flanks of the volcano creating pyroclastic flows. These flows reached as far as 5km into the Mizunashi River Valley destroying several hundred homes and valuable farm land. These collapses of a lava dome displayed a new way of pyroclastic flow origin and helped researchers predict these hazards to prevent loss of life.

English Literature, Linguistics, Writing

Session Chairs: Gavin Keulks, Henry Hughes, Carol Harding, and Cornelia Paraskevas

Session Title: Academic Excellence in English

Location: Werner University Center (WC)

Presentations:

1:00 – 1:05 p.m., WC Columbia Room

Dr. Gavin Keulks

Introduction and Welcome

1:05 – 1:15 p.m., WC Columbia Room

Rebecca Chadd

Faculty Sponsor: Carol Harding

Title: Aphrodite: Dual Origin and Double Nature Reveals Ancient Greek and Roman Attitudes

1:15 – 1:30 p.m., WC Columbia Room

Rebekah Joiner

Faculty Sponsor: Carol Harding

Title: Presentation on Princess of Cleves

1:30 – 1:40 p.m., WC Columbia Room

Christy Courtain

Faculty Sponsor: Carol Harding

Title: Pride: No Longer Deadliest of the Seven Sins?

1:45 – 1:55 p.m., WC Columbia Room

Nicole Perry

Faculty Sponsor: Kit Andrews

Title: Three Blind MAUSES

1:55 – 2:05 p.m., WC Columbia Room

Alisa Thompson

Faculty Sponsor: Kit Andrews

Title & abstract see end of section

2:05 – 2:15 p.m., WC Columbia Room

Lance Deal

Faculty Sponsor: Henry Hughes

Title: Select Original Poetry

2:15 – 2:25 p.m., WC Columbia Room

Cynthia Dusenberry

Faculty Sponsor: Gavin Keulks

Title: Women's Roles

2:25 – 2:35 p.m., WC Columbia Room

English Department Student Awards

2:35 – 2:45 p.m., WC Columbia Room

Tiffany Graves

Faculty Sponsor: Henry Hughes

Title: Select Original Poetry

2:45 – 2:55 p.m., WC Columbia Room

Amanda Miles

Faculty Sponsor: Gavin Keulks

Title: Joyce's A Portrait of the Artist as a Young Man: From Freud to Erikson

2:55 – 3:05 p.m., WC Columbia Room

Jennifer Carmichael

Faculty Sponsor: Kit Andrews

Title: From Brigand to Bookworm: How Reading Shapes Interiority

3:15 – 3:25 p.m., WC Columbia Room

Kendra Boettger

Faculty Sponsor: Cornelia Paraskevas

Title: Literacy Narrative

3:25 – 3:35 p.m., WC Columbia Room

Christie Cody

Faculty Sponsor: Henry Hughes

Title: Select Original Fiction

3:35 – 3:45 p.m., WC Columbia Room

Beth Fleisher

Faculty Sponsor: Henry Hughes

Title: Select Original Poetry

3:45 – 3:55 p.m., WC Columbia Room

Ty Brack

Faculty Sponsor: Henry Hughes

Title: Select Original Poetry

Continued.....

Alisa Thompson

Faculty Sponsor: Uma Shrestha

Title: The Use of Silence in North American Society

Abstract: Just as different cultures use language as a means of communication, silence can also be used to convey a certain

message. Silence, however, can be interpreted differently depending on the culture and the circumstances. This paper looks at how in North American society silence can be employed in many ways to convey a variety of messages. Though the form is the same, silence can express two very opposite meanings.

English Literature, Linguistics, Writing

Session Chair: Cornelia Paraskevas

Session Title: Academic Excellence in English / Linguistics
Posters

Location: Werner University Center (WC)

Poster Session Abstract: Students conducted a comparative analysis of language use, syntactic structures and/or conventions, examining authentic texts (newspapers and magazines) at two dates: 1850s, when WOU was founded, and the 20th century.

Each poster presents the data, a brief analysis and the conclusions drawn.

Posters:

9:00 – 11:30 a.m., WC Pacific Room

Erin Cavanaugh, Kimberly Lipp, Caroline Whitmer, and Ashley Zentz

Faculty Sponsor: Cornelia Paraskevas

Title: One Hundred Years of Punctuation, 1854-2006

Abstract: Data collected from the *New York Times* reveals significant change in the punctuation conventions, pronoun usage and sentence complexity. Specifically, the early texts reveal lack of a wide range of punctuation conventions, unclear pronoun reference and longer, more complex sentences.

9:00 – 11:30 a.m., WC Pacific Room

Sauna Andersen, Thomas Bell, and Alisa Thompson

Faculty Sponsor: Cornelia Paraskevas

Title: Oh, the TIMES, they are a' changin' . . .

Abstract: This poster documents the changes in punctuation between 1856 and 2006, as seen in the *New York Times*. Data analysis reveals that punctuation in 1856 was heavier but much less consistent than present day punctuation, which is standardized and consistent across texts (but also lighter, due to rising costs).

9:00 – 11:30 a.m., WC Pacific Room

David Hoffman, Anita Kraus, and Stephanie Makjavich

Faculty Sponsor: Cornelia Paraskevas

Title: Changing Syntactic Structures, 1850s to the present

Abstract: Data collected from periodicals printed in the late 1850s and the present reveal significant similarities in structures used (fronting, appositives, absolutes, participials, clefts) as well as differences (present day texts use fragments or coordinating conjunctions to introduce a new sentence).

9:00 – 11:30 a.m., WC Pacific Room

Andrea Forrette, Allyson Pulido, and Candace Weston

Faculty Sponsor: Cornelia Paraskevas

Title: Reporting death: stylistic differences between 1860 and 1960

Abstract: Data collected from newspapers examined the stylistic differences between the 1800s and the 1900s as they relate to significant historical events such as the assassinations of President Lincoln and Dr. Martin Luther King. The older texts present the event in a much more graphic yet succinct fashion, partly due to the different sociolinguistic demands of the time.

Health and Physical Education

Session Chairs: Brian Caster and Daryl Thomas

Session Title: Health and Physical Education Symposium

Location: Werner University Center (WC)

Presentations:

8:30 – 9:15 a.m., Calapooia Room

Tiffany Burr, Tiffany Hansen, Kris Jordan, Kyle VanNess, Ashlee Fortune, Jessica Johnson, Chelsea Glavin, Sara McCutchen, and Michelle Tyler

Faculty Sponsor: Warren Allen

Title: The Multifaceted Components of Stress and Related Health and Wellness Issues – A Panel Discussion

Abstract: In this panel discussion, presenters will address the many influencing factors of stress and how they contribute to disease and illness in a set of focused yet pervasive areas of society. The multi-member panel will present, in an open discussion format, information and insights discovered doing topical research in several areas of concern.

9:30 – 9:45 a.m., Calapooia Room

Karon Springstead

Faculty Sponsor: Jessica Henderson

Title: Coping with Cancer and Diabetes: A Case Study

Abstract: This case study paper documents the personal experience of a woman diagnosed with both Type 2 Diabetes and Endometrial Cancer. The interview illustrates how one person copes with physiological, psychological, social, cultural and ethical aspects of the co-morbidities. A summary of a related published research article that investigates the correlation between hyperinsulinemia and cancer is presented.

9:45 – 10:00 a.m., Calapooia Room

Amber Lee, Sandra LaChance, and Whitney Williams

Faculty Sponsor: Jessica Henderson

Title: It's Not Too Late

Abstract: A theory-based campaign for the prevention of fetal alcohol syndrome (FAS) was developed using social marketing principles. The target audience was college-age women who drink alcohol and are sexually active. The goal of this campaign was to prevent FAS through an increase in the use of contraceptives. The development of the ad included formative evaluation with college-age women. The theoretical bases were The Health Belief Model and the Social Norms Theory.

10:00 – 10:15 a.m., Calapooia Room

Ashlee Fortune, Evan Keiling, Cole Keiling, and Brian Seward

Faculty Sponsor: Jessica Henderson

Title: Strap Up: A Social Marketing Campaign

Abstract: A theory-based campaign for the prevention of fetal alcohol syndrome (FAS) was developed using social marketing principles. The target audience was college-age men who are sexually active. The goal of this campaign was to prevent FAS through increased condom use. The development of the ad included formative evaluation with college-age men. The theoretical basis was The Theory of Reasoned Action.

10:30 – 10:45 am, Calapooia Room

Ingrid Adams

Faculty Sponsor: Linda Stonecipher

Title: Intimate Partner Violence

Abstract: Intimate partner violence is a complex web of intra-personal, inter-personal, and socially rooted issues. Researchers in various medical, social and psychological professions have provided a plethora of data to learn about the risks and problems associated with the phenomena of spouse abuse. Opportunities to contribute to the resolve of domestic violence abound, depending on an individual's convictions and personal interests about the phenomena of spouse abuse. This research was conducted to make a contribution to research literature by investigating health care professionals' attitudes pertaining to domestic violence and the relationship to education regarding the phenomena.

10:45 – 11:00 a.m., Calapooia Room

Kari Venti and Karon Springstead

Faculty Sponsor: Amy Hammermeister Jordan

Title: Sexuality and Aging

Abstract: An examination of the stereotypes, cultural attitudes, statistics and social issues surrounding sexuality in late adulthood in the U.S.

1:00 – 1:15 p.m., Calapooia Room

Levi Thomas

Faculty Sponsor: Brian Caster

Title: A Biomechanical Analysis of the Power Clean

Abstract: This presentation will include a review of professional literature helping answer the "how's and why's" that are asked when looking at a power clean. Information on the proper body mechanics used during the power clean will be discussed. Analyses conducted include breaking the movement down into four phases, analyzing the power clean from an anatomical perspective, measuring joint angles, implement tracking and phase timing. Also included are biomechanical principles and how they relate to the power clean.

1:15 – 1:30 p.m., Calapooia Room

James Philips

Faculty Sponsor: Brian Caster

Title: A Biomechanical Analysis of Field Goal Kicking

Abstract: This presentation takes a biomechanical approach at evaluating a soccer style field goal kick in American football. The kicking action is broken down into four descriptive phases taken from today's popular literature. Critical features necessary for the success of the kick are then identified for each phase. Critical features from three sources are then compared with each other to expose the vast differences of opinion within the field.

1:30 – 1:45 p.m., Calapooia Room

Ann Marie Ely and Darik Griffith

Faculty Sponsor: Brian Caster

Title: The Effects of an Eight Week Physioball Training Program on Core Stability and General Balance – a Pilot Study

Abstract: The purpose of this study was to develop a physioball exercise treatment targeting one-leg balance and core (trunk) stability. Eight female subjects enrolled in PE 131 voluntarily participated in the program. The double-leg lowering maneuver (DLLM) was used to assess core stability, and a timed unilateral balance test was used to assess general balance. Pre-post test comparisons indicated significant improvement in the DLLM and in the balance test on the dominant leg. No significant difference was observed in balance on the non-dominant leg. These findings and qualitative observations will be used in refining the treatment protocol for future implementation.

2:00 – 2:15 p.m., Calapooia Room

Ruth Weston

Faculty Sponsor: Marita Cardinal

Title: Elementary Physical Education Teaching Practicum

Abstract: Ruth will share her teaching experiences in the PE 434 course, Elementary Physical Education Teaching Practicum. In this course, Ruth taught groups of local home-schooled children (ages 3-12) physical education lessons almost every week of fall term 2005. She will discuss her teaching abilities and use of various teaching behaviors, her experiences teaching the children, and show samples of her work through video clips and curricular materials. Ruth's strong leadership abilities, interactive teaching style, and comprehensive lesson plans and teaching reflections serve as role models for others.

2:15 – 2:30 p.m., Calapooia Room

Jacob Gerig

Faculty Sponsor: Marita Cardinal

Title: Elementary Physical Education Teaching Practicum

Abstract: Jake will share his teaching experiences in PE 434 Elementary Physical Education Teaching Practicum, as well as many voluntary experiences at Independence Elementary School. Jake taught groups of local home-schooled children (ages 3-12) weekly physical education as part of PE 434. He also worked with Meg Greiner at IES and now directs the after school physical education program, "Primetime." He will discuss his teaching abilities and use of various teaching behaviors, his experiences with children, and show work samples through video and curricular materials. Jake's strong leadership abilities and positive character make him a role model for others.

2:30 – 2:45 p.m., Calapooia Room

Jennifer MacWhorter

Faculty Sponsor: Tom Kelly

Title: Chromium Picolinate: A Critical Analysis of the Ergogenic Claims

Abstract: A look at the use of chromium picolinate by today's society as a "fat burning, muscle building, natural supplement" and the studies done about this claim.

3:00 – 3:15 p.m., Calapooia Room

Names: Brittany Bosco, Charisse Joliff, Kimberly Kerr, and Tom Lepley

Faculty Sponsor: Jerry Braza

Title: Playground CITY

Abstract: Every day thousands of children across the United States play at playgrounds. It is estimated that every 2-1/2 minutes a child is treated in an emergency room for a playground related injury. It is important that the issue of playground safety is addressed and that playgrounds are inspected. Recess time and playing on the playground is supposed to be fun and enjoyable for kids. However, students at Falls City Elementary School are very cautious and

concerned as they play at recess. Currently their playground does not meet the safety standards that are issued by the National Program for Playground Safety.

3:15 – 3:30 p.m., Calapooia Room

Anna Ryan

Faculty Sponsor: Jerry Braza

Title: Forgotten People

Abstract: A presentation of the last year of work with the Forgotten People, covering from before the conception to the present. My activities include sitting on the Board of Directors, working with students in HE 471 Program Planning, Methods and Evaluation for the past three terms, planning fundraising campaigns, helping plan, organize and staff the Tet Banquet, as well as helping on the new \$50,000 fundraising campaign. Future work will hopefully include a trip with FPF to Vietnam.

3:30 – 3:45 p.m., Calapooia Room

Jennifer McCormick, Diana Warren, and Lindsey Hecht

Faculty Sponsor: Jerry Braza

Title: Project SAFE

Abstract: The mission of Project SAFE is to connect volunteers with the local Willamette Chapter of the American Red Cross to train them as leaders in the Together We Prepare curriculum. The team will coordinate the schools, businesses, churches, etc. to set up preparedness sessions. During National Preparedness Month, September 2006, Project SAFE will train 225 families throughout Marion and Polk counties in five key elements of being prepared: make a plan, build a kit, get trained, volunteer and give blood. Each family will receive a disaster supply starter kit provided by generous donations from local companies.

Health and Physical Education

Session Chairs: Brian Caster and Daryl Thomas

Session Title: Health and Physical Education Posters

Location: Werner University Center (WC)

Posters:

9:00 – 11:30, WC Pacific Room

Elisabeth Thomas

Faculty Sponsor: Peggy Pedersen

Title: Using the Health Belief Model to Guide Behavior Change

Abstract: This behavior change project involved interviewing a client and utilizing a behavior process theory to guide program development. Following an assessment interview with a client, the Health Belief Model was used to develop an intervention strategy. The intervention process was illustrated using a logic model.

9:00 – 11:30, WC Pacific Room

Charisse Jolliff

Faculty Sponsor: Peggy Pedersen

Title: Changing Eating Habits Using the Theory of Planned Behavior

Abstract: Facilitating behavior change is a central part of health education practice. This project involved using the Theory of Planned Behavior to work with a client at the individual level to change his/her eating habits. A logic model was developed to illustrate the relationship among inputs, activities, outputs and outcomes.

9:00 – 11:30, WC Pacific Room

Diana Warren

Faculty Sponsor: Peggy Pedersen

Title: Applying Theory in a Personalized Behavior Change Program

Abstract: Obesity is epidemic in our society and many people are seeking assistance in modifying eating and exercise habits. This project involved setting up a personalized program for behavior change using the Theory of Planned Behavior. The basic components of the program and expected outcomes are presented using a logic model.

9:00 – 11:30, WC Pacific Room

Barbara Wagner, Fallon Stewart, and John Weaver

Faculty Sponsor: Jerry Braza

Title: Gardner's Guide: How to Grow a Healthy Relationship

Abstract: This publication, a guide to healthy relationships, is aimed toward all types of relationships that people experience every day, from business with co-workers to home life with loved ones. The handbook is useful for developing a healthy growth-based relationship at any stage of the process, be it someone you have just met or someone you have a long-standing relationship with. The focus of the handbook is the assessment of what it is to be loving and how to look at love as a verb. The handbook includes relationship paradigms, tools for assessment, insight into love's potentials and much more.

History

Session Chair: Benedict Lowe

Session Title: History Department

Location: Humanities and Social Sciences (HS)

Presentations:

10:30 – 10:45 a.m., HS 107

Tara Jones

Faculty Sponsor: Benedict Lowe

Title: Foot Binding: Female Boundaries in China

Abstract: The Chinese have a history of practicing a custom called footbinding. At the age of five or six years old a female child would be forced, by their mothers, to endure great pain to have their feet broken. The toes would be moved underneath the foot. The arch of the foot would be bent so that the toes would meet the heel of the foot. The foot would be kept bound for the rest of the young lady's life and she would be judged according to the size of her foot. Why was there such a practice in China?

10:45 – 11:05 a.m., HS 107

Emily Holmes

Faculty Sponsor: Benedict Lowe

Title: From Side Eddies to Main Stream: The Rehabilitation Act of 1913, Section 503 Sit-Ins

Abstract: My undergraduate thesis looks first at the historiography of disability history, and then at the disability rights movement with a specific focus on the Rehabilitation Act of 1973 Section 504 sit-ins, especially the one in San Francisco. The Section 504 of the Rehabilitation Act of 1973 is the first piece of American legislation that prohibits discrimination towards people with disabilities and recognizes their civil rights. Without the disability rights movement, especially the sit-ins, the progress that America has made in recognizing the civil rights of people with disabilities would have been greatly impacted. This is a milestone not only in the disability rights movement but also in society in general.

11:05 – 11:20 a.m., HS 107

Travis Moore

Faculty Sponsor: David Doellinger

Title: American Literary and Political Response to the European Revolutions of 1848

Abstract: This senior seminar presentation will be addressing the American Literary and political responses to the European revolutions of 1848-49. The scope of this senior history thesis is to show the evidence of a somewhat neglected topic in both European and American history studies. This presentation will be drawing from the viewpoints of prominent U.S. political figures of the day: Senator John Calhoun, President Polk and others. It will also highlight some of the illustrious authors such as Henry David Thoreau, Ralph Waldo Emerson and Herman Melville, whose lives and writings were impacted by the revolutions so far away. Also artwork and lyrics of period rally songs will be shown and displayed.

Mathematics

Session Chair: Maria Fung

Session Title: Mathematics

Location: Werner University Center (WC)

Presentations:

9 – 9:15 a.m., WC Santiam Room

Jennifer Carmichael

Faculty Sponsor: Mike Ward

Title: Simple Statement but Strict Structure: Frobenius and Groups with n Elements of Order n

Abstract: A theorem by Frobenius makes the (seemingly) simple statement that, in a finite group, the number of elements with order dividing n is a multiple of n . This presentation will explain the surprisingly strict structure of groups under a specific case of this theorem: namely, the structure of groups with exactly n elements of order n .

9:20 – 9:35 a.m., WC Santiam Room

Avery Cotton and Isaac Kirkwood

Faculty Sponsor: Cheryl Beaver

Title: Modular Prime Sieve

Abstract: With an infinite number of primes, investigating and identifying them can prove to be an arduous task. Frequently, it is convenient to consider a set of primes and remove easily identifiable composite numbers. For example, when examining multiples of six, most of the numbers immediately preceding or following such multiples are found to be prime; the set of these numbers retains all but two primes. We ordered this set into a sequence; developed a function to generate the terms, and created a formula to determine which elements were composite and what their divisors were. Future applications include cryptography.

9:40 – 9:55 a.m., WC Santiam Room

Keith D. Schoeman

Faculty Sponsor: Mike Ward

Title: The Geometry of Rene Descartes

Abstract: Rene Descartes' geometry provides foundational steps towards the modernization of geometry. His application of algebraic ideas to geometry is of great importance. Descartes' work, as recorded in his, *La Geometrie*, tackles such algebraic ideas as addition, multiplication, division, extracting roots and solving polynomials, all in a geometric setting.

10 – 10:15 a.m., WC Santiam Room

Cole Pouliot

Faculty Sponsor: Mike Ward

Title: Candy Sharing

Abstract: A fun and tasty look at an application of Markov Chains. Imagine a game where all players are given a finite number of candies and specific rules on how to share them. If there is an infinite amount of candy and the game can continue forever, what will happen?

10:20 – 10:35 a.m., WC Santiam Room

Rob Keene

Faculty Sponsor: Mike Ward

Title: A Mathematical Study of Distortion Maps

Abstract: Cartographers and surveyors have long tried to create a map that would preserve all distances, angles, and areas. We must, however, consider whether such a map exists. If there is no such map, then we must conclude that every map has some distortion. The key questions then become: How do we measure distortion? What (useable) maps have the least amount of distortion? Using a unit sphere as a model of the earth, one may show that the Azimuthal equidistant projection is a minimum distortion map.

10:40 – 10:55 a.m., WC Santiam Room

Holly Bochsler, Rosemary Fama, and Karen Lange

Faculty Sponsor: Mike Ward

Title: The Rubik's Cube

Abstract: The Rubik's Cube has fascinated and entertained children and adults for over two decades. The toy is not only challenging but actually involves some in-depth mathematics. Our presentation will go over the history of the Cube, some of the mathematics, and even the process of solving this puzzle.

11:00 – 11:15 a.m., WC Santiam Room

Melissa Johnson

Faculty Sponsor: Mike Ward

Title: The Golden Ratio

Abstract: The Golden Ratio is a proportion that is prevalent in our universe, appearing in nature, in the architecture of both ancient and current structures, and in various proportions of the human body. Mathematicians have found that the Golden Ratio has unique and fascinating properties. These properties can be extended to other, more complex ratios, rendering a class of related ratios, all having corresponding properties and applications.

11:20 – 11:35 a.m., WC Santiam Room

Jonathan Stroup

Faculty Sponsor: Maria Fung

Title: Euler's Summation Formula

Abstract: Calculators and computers today can sum thousands of terms of a series in a short period of time. What if we needed $10^3,000$ terms? It is only through calculus that we might be able to sum extremely large sums with high accuracy. In this talk we discuss a powerful application of calculus, called the Euler Summation formula.

11:40 a.m. -12:00 p.m., WC Santiam Room

Title: Open Discussion

Mathematics

Session Chair: Maria Fung

Session Title: Pi Mu Epsilon Induction Ceremony

Location: Werner University Center (WC)

Presentations:

1:30 – 3:00 p.m., WC Santiam Room

Invited Speaker: Sam Hall

(Willamette University)

Title: Eduoard Lucas: Sequences for Fun, Fame and Secrecy

Abstract: Eduoard Lucas is not as well known as Fibonacci, but his work with sequences slightly more general than that of Fibonacci led him not only to some very popular mathematical puzzles, but to tests for primality that gained him reputation as a serious mathematician. Later mathematicians extended his work to the basis for the best known primality tests and to some public key encryptions systems. The presentation will do a survey of Lucas' work and its extensions, with the intent of stimulating interest in the kind of mathematical explorations he did. **Speaker's biographical information:** Richard Samuel Hall retired in 2005 from Willamette University. At retirement he held an endowed chair as James T. Matthews Professor of Mathematics. During his years at WU he was chair of mathematics for several years and was provost/academic vice president of the university for more than a decade. His interests in mathematics center around number theory. He is also well-known for his teaching and work in nonviolent social activism and peace, mediation and improving mathematics teaching.

Modern Languages

Session Chairs: Kit Andrews **Session Title:** Modern

Languages Outstanding Students

Location: Humanities and Social Sciences (HS)

Presentations:

2:00 – 2:15 p.m., HS 329

Jorge Figueroa

Faculty Sponsors: Cheryl Strand, Kit Andrews and Gianna Martella

Title: Outstanding Spanish Students

2:15 – 2:30 p.m., HS 329

Lindsey Fauble and Melissa Hinzmann

Faculty Sponsors: Laura Stahman and Kit Andrews

Title: Outstanding German Student

Music

Session Chair: Solveig Holmquist

Session Title: Music Department Presentations

Location: Smith Music Hall (SM)

Presentations:

8:45 – 9:45 a.m., SM 108

Presenter: Kevin Helppie

Title: Soulstice Wake-up Call

Performance: Observe a rehearsal with WOU's vocal jazz choir. Leader Kevin Helppie will give a lecture-demonstration of jazz techniques and preparation of original manuscripts.

10:00 – 11:30 am, SM 121

Presenter: Diane Baxter

Title: Student Honors Recital I

Performance: Nineteen auditioned student musicians will reprise their portion of the Honors Recital presented on May 11th. A wide variety of instruments and musical styles will be included.

Program:

Voi che Sapete (W.A. Mozart)

Kaitlyn Roth, mezzo-soprano; Jackie Morelli, piano

Non piu andrai (W. A. Mozart)

Dylan Jones, baritone; Jackie Morelli, piano

Batti, Batti (W. A. Mozart)

Catherine Marinelli, voice; Jackie Morelli, piano

Consolation No.5 (F. Liszt)

Chie Nakagawa, piano

Elegie (Fauré)

Laurel Reid, voice; Melissa Jordan, viola

Piano Quartet in E flat major, Op. 16 (L. V. Beethoven)

Catheryn Kennedy, violin; Melissa Jordan, viola;

Zachary Taylor, cello; Simon Bielman, piano

Laudamus Te (J. S. Bach)

Aimee Larsen, soprano; Jackie Morelli, piano

Prelude Op. 32, Nos. 8 and 5 (Sergei Rachmaninoff)

Carolyn Matthews, piano

Girl in 14G (Jeanine Tesari)

Jessica Mullis, soprano; Jackie Morelli, piano

Stars and the Moon (Jason Robert Brown)

Catherine Bridge, mezzo-soprano; Carolyn Matthews, piano

My Romance (Rogers & Hart)

Brian Jones, alto saxophone; Dan Dixon, guitar;
Casey Younger, bass; Simon Bielman, piano

Divertimento (Roger Boutry)

Ryan Smith, saxophone; Carolyn Matthews, piano

12:00 -12:50 p.m., SM 121

Presenters: Solveig Holmquist and Kevin Walczyk,
Composer

Title: *Canticle: Concert Choir Meets the Composer*

Performance: Faculty composer Kevin Walczyk presents the work he composed, in celebration of WOU's Sesquicentennial, for the Concert Choir. In the spirit of enlightenment, the principal goal sought by institutions of higher education, Canticle speaks to the acquisition of knowledge, wisdom and truth.

1:00 – 2:15 p.m., SM 121

Presenter: Diane Baxter

Title: Student Honors Recital II

Performance: Thirteen auditioned student musicians will reprise their portion of the Honors Recital presented on May 14th. A wide variety of instruments and musical styles will be included.

Program:

Sonata in F major, mvt. 1 (W. A. Mozart)

Erica Hall, Flute; Karen Jepsen, piano

Allegro for String Bass (G. F. Handel)

Casey Younger, string bass; Marcus Bellon, piano

The Watermill

Hayley Glickfeld, mezzo-soprano; Carolyn Matthews, piano

Three Spanish Dances (Philip Lane)

Gillian Denton, oboe; Carolyn Matthews, piano

Breit uber mein Haupt (Richard Strauss)

Karen Jepsen, mezzo-soprano; Carolyn Matthews, piano

Nocturne in C# major and Mazurka in G minor (F. Chopin)

Karley G. Herrick, piano

Sonata for Clarinet and Piano (L. Bernstein)

John Donnelly, clarinet; Carolyn Matthews, piano

Three Fantastic Dances (Dimitri Shostakovich)

Simon Bielman, piano

Sax Soprano Magoado (Luiz dos Santos e Patrasca)

Linnae Eckley, alto saxophone; Dan Dixon, guitar

Just Friends (Sam M. Lewis/John Klenner)

Kevin Ohmart, flugelhorn; Casey Younger, bass; Dan Dixon, guitar

2:15 – 3:00 p.m., SM 121

Presenters: Solveig Holmquist and Joseph Harchanko,
Composer

Title: Visions: Chamber Singers Meet the Composer

Performance: An open rehearsal with WOU's Chamber Singers, as they prepare a work recently composed by faculty composer Joseph Harchanko.

3:00 – 4:00 p.m., SM 108

Presenter: Keller Coker

Title: WHO Blows You Away

Performance: Observe a rehearsal with WOU's jazz orchestra as they prepare for their end-of-term performance.

Philosophy

Session Chair: Mark Perlman

Session Title: Philosophy Senior Thesis Presentations

Location: Humanities and Social Sciences (HS)

Presentations:

9:00 – 9:30 a.m., HS 237

Daniel Van Winkle

Faculty Sponsor: Mark Perlman

Title: Multiple Minds, Single Identity

Abstract: What is a person? In my presentation I will entertain the suggestion that a person is the consciousness that is associated with a living human body. What if, however, there was more than one consciousness in a single body? Could we ever know? Even if we could, should we then say that more than one person exists within the same body? I argue that there are few, if any, real or imaginable cases where we might have good reason to believe that more than one person exists in a single human body.

9:30 -10:00 a.m., HS 237

Simon Peake

Faculty Sponsor: Mark Perlman

Title: Cosmological Arguments Against God

Abstract: One common approach to arguing for the existence of God is to cite the need for a "first cause" of the universe. This approach is known as the "Cosmological Argument," although it is really a family of related arguments, which go back to Aristotle and St. Thomas Aquinas. There are modern versions of the argument which identify the Big Bang Theory as a confirmation of these arguments for God. In this paper I criticize some of the recent revisions of the Cosmological Argument as incapable of proving the existence of God.

10:10 -10:40 a.m., HS 237

Josh Hunter

Faculty Sponsor: Mark Perlman

Title: Dionysian Delight

Abstract: It can be argued that Nietzsche's early views, in *The Birth of Tragedy*, are incompatible with his later philosophy of the will to power. I will argue that both views are compatible. This will require me to make the dual nature of Dionysus and Apollo fit with the unified sense presented in Nietzsche's later view of power. I outline an inconsistency in understanding *The Birth of Tragedy* as implying a dualism, and will conclude by offering a new interpretation of Nietzsche's conception of tragedy. Nietzsche's conception of Dionysus in *The Birth of Tragedy* can be unified with later Nietzschean philosophy.

10:40 – 11:10 a.m., HS 237

Michael Orr

Faculty Sponsor: Mark Perlman

Title: Can We Save Hume from the Long Slow Slide into Oblivion?

Abstract: The philosophy of David Hume became the basis for empiricism, focusing on sensory impressions and the nature of ideas to explain the activity of the human mind. Hume is also skeptical about knowledge of causation. If taken to its logical conclusion Hume's philosophy seems to leave us with an incoherent or bizarre worldview. It is the goal of my paper to explain the result of Hume's philosophy and see if there's a way to reconcile the seemingly reasonable approach of Hume with a world in which we believe that things in general, and ourselves in particular, do exist.

Political Science

Session Chair: Mary Pettenger

Session Title: Model United Nations Mock Session

Location: Humanities and Social Sciences (HS)

Presentations:

10:30 – 11:30 a.m., HS 112

Ivan Hurtado, Jesse O'Neill, Abby Stephens, Lindsey Fauble, Francesca Guralnick, Courtney Wallace, Yendi Martinez de Castro, Patrick Eiser, Travis Moore, and Laura Maddox

Faculty Sponsor: Mary Pettenger

Title: Model United Nations Mock Session

Abstract: Eleven members of the Model United Nations club will present a one-hour mock session of a Model United Nations conference. Ten students will represent various states and one student will serve as the conference chair. During the hour they will be negotiating a resolution on Iran and nuclear proliferation.

Psychology

Session Chair: Lauren Roscoe

Session Title: Psychology Symposia

Location: Hamersly Library (HL)

Presentations:

8:30 – 8:45 a.m.; HL 107

Joel Simon and Loni McArthur

Faculty Sponsor: Eric Cooley

Title: The Effects of Alcoholics Anonymous

Abstract: Alcoholics Anonymous is the oldest, most successful alcohol treatment program not only in the United States but the world. Until very recently the disease of alcoholism has been ignored by the professional community only recently being recognized as a disease by the American Medical Association; people who are recovering alcoholics started AA and now provide treatment to millions of people looking to change their lives. Our presentation examines the effects that Alcoholics Anonymous has on this disease; particularly we hypothesize that people who have been attending AA longer have been sober for a longer period of time than people who have been attending AA for a short period of time. We also hypothesize that people who are involved in AA, attend more meetings per month, stay sober longer than those who attend fewer meetings per month.

8:45 – 9:00 a.m.; HL 107

Trisha Coleman, Leroy Sanchez, and Eric Druliner

Faculty Sponsor: Eric Cooley

Title: Insecure Attachment and Eating Pathology as Predictors of Depression

Abstract: This longitudinal study examined attachment styles and eating pathology as interpersonal variables that could increase vulnerability to depression. Participants were 117 female university students. Assessments were collected during freshman orientation week and then 20 months later. Measures included: Beck Depression Inventory II, The Adult Attachment Style questionnaire and a composite measure from the Eating Disorders Inventory. Hierarchical regression analysis predicting level of depression at Time 2 entering Time 1 Depression as a first step, Attachment Style as a second step and Eating Pathology as a third step produced a full model R² value of .43 ($p < .001$). Significant Beta weights in the final equation belonged to Time 1 Depression (Beta = .38), the Close scale (Beta = .30) of the Adult Attachment Style, and the composite measure of eating pathology (Beta = .21). Eating pathology and insecure attachment style at time 1 helped to predict depression at time 2.

9:00 – 9:15 a.m.; HL 107

Eric Druliner

Faculty Sponsor: Dave Foster

Title: Psychology Practicum in Law Enforcement

Abstract: For the past three terms I have been volunteering at Silverton Police Department for my Psychology Practicum study. I was sworn in as reserve police officer in October 2004 and attended a Reserve Police academy to gain basic knowledge and training in law enforcement. Working as a police officer I am able to utilize and apply what I have learned in the classroom out in the field. I have been involved in many situations and tasks which involved gaining experience through helping others, being able to identify behavior and personalities, and training that enhanced decision making skills in high stress situations. Studying psychology, I have been able to recognize specific material such as maladaptive behavior, body language and mental stressors. I have also discovered the importance of staying mentally healthy while working in law enforcement. I am pleased to have participated in a program that truly prepares you for future goals.

9:15 – 9:30 a.m.; HL 107

Danielle Osborne

Faculty Sponsor: Mary Ellen Dello Stritto

Title: Changes in Blame Placement According to Gender

Abstract: This study examined people's beliefs in a just world and how their perceptions of it can be altered by gender. It was predicted that given the same hypothetical scenario of either a male or a female adulterer being murdered, male and female participants would rate the victims differently in how much they were to blame for their own murder, specifically, that male and female participants would both rate the female victim higher in blame than the male victim. One hundred and five participants (mean age 19.5, 79 females, 26 males) took part in the study where they numbered characters in descending order of how at blame they felt the character was for the victim's murder. The results showed some significance, and showed that female and especially male participants more often place the male victim higher in blame for his own murder.

9:30 – 9:45 a.m.; HL 107

Tammy McCammon

Faculty Sponsor: Dave Foster

Title: Ethical Implications Surrounding Student Use of Personality Assessments

Abstract: This presentation gives a brief history of the Rorschach Inkblot Test, looks at controversy surrounding the Rorschach, and delves into the reliability, validity and ethical use of this and other personality assessment tests in student research. An open forum will encourage discussion regarding the ethics behind the use of assessment tools by unqualified individuals, specifically students in an academic setting. The A.P.A., American Psychological Association; S.P.A., Society of Personality Assessment; and printed literature have been

researched for the purpose of this discussion. Guidelines addressing this topic are taken directly from the A.P.A. and S.P.A. Web sites, along with inquiries from professionals to determine ethical implications for students conducting course required, independent research.

9:45 – 10:00 a.m.; HL 107

Mary Steers

Faculty Sponsor: Rob Winningham

Title: The Effects of Age on Accurate Age Estimation in Older and Younger Adults

Abstract: Eyewitness testimony is an integral part of our judicial system and carries great weight in courtroom cases; thus, accurate identifications are crucial. Chance and Goldstein (1996) found that face recognition accuracy decreased for people whose race differed from their own, evidencing a cross-race effect (CRE). The present study applied this theory to age, examining the effects of age on one's ability to accurately estimate the age of others. Winningham (2000) found older adults were less accurate than younger adults at estimating younger adults' ages. The current study investigated whether the converse is true. Our hypothesis suggested a crossover interaction between age of participant and age of model exists where participants are more accurate in estimating the ages of models in their age group. Results indicate a significant interaction between these variables, with younger adults being significantly more accurate than older adults in their estimations of the younger adult models' ages.

10:00 – 10:15 a.m.; HL 107

Amanda Miles

Faculty Sponsor: Rob Winningham

Title: An Examination of Stress and Illness Among College Students

Abstract: Stress is common in the college setting. Previous research has suggested that high stress levels can increase vulnerability to disease due to decreased immune system functioning, which may result in illness (Miller, Cohen, & Ritchey, 2002). Stress management can be incorporated into college students' lives to reduce stress (Stevens & Pfost, 1984). The purpose of the current study was to examine whether a relationship existed between stress levels during final exams and subsequent illness among Western Oregon University students, and to examine whether a relaxation intervention utilizing mindfulness breathing would be effective in reducing the likelihood and severity of illness. We will discuss the effects of the intervention on participants' reported health. The result will be discussed relative to our original hypotheses.

10:15 – 10:30 a.m.; HL 107

Lu An Carone, Susan Shumway, and Wesley Stoller

Faculty Sponsor: Chehalis Strapp

Title: Involvement as a Factor in Student Satisfaction and Performance

Abstract: The purpose of this study was to examine the relationship among student involvement, satisfaction and performance of recent alumni of the psychology program at Western Oregon University. It was hypothesized that student involvement would mediate the relationship between satisfaction and academic performance. One hundred and nine completed surveys were returned. Regression analysis showed that satisfaction accounted for significant variation in student involvement ($R^2 = .036$, $p < .05$) but was not related to academic performance. Involvement accounted for significant variation in academic performance ($R^2 = .154$, $p < .05$) after accounting for satisfaction. These results suggest that involvement mediates the relationship between satisfaction and academic performance. Discussion will also include alumni advice to undergraduates regarding finding employment, graduate school, making career plans and maximizing their college experience.

10:30 – 11:30 a.m.; HL 107

Keynote Speaker: Sue M. Koger, Willamette University

Title: Preschoolers and Pesticides: Environmental Toxicants and Developmental Disabilities

Abstract: Development, learning and behavioral disabilities are a significant public health problem. Environmental chemicals can interfere with brain development during critical periods, thereby impacting sensory, motor and cognitive functioning. Because regulation in the United States is based on limited testing protocols and essentially requires proof of harm rather than proof of lack of harm, some undefined fraction of these disabilities may reflect adverse impacts of this “vast toxicological experiment” (H.L. Needleman, as quoted in B. Weiss & P.J. Landrigan, 2000, p. 373). Yet the hazards of environmental pollutants are inherently preventable. Psychologists can help prevent developmental disabilities by mobilizing and affecting public policy, educating and informing consumers, contributing to interdisciplinary research efforts, and taking action with their own homes and communities to reduce the toxic threat to children.

1:00 – 1:15 p.m.; HL 107

Coren Michaud-Tradd, Kyle Plummer, and Winnie Nie

Faculty Sponsor: Rob Winningham

Title: Cognitive Rehabilitation in Older Adults with Mild Cognitive Impairment

Abstract: Previous research suggests cognitive exercises can help delay or even prevent dementia. Since 1998, we have known that neurogenesis takes place in older adults. The “Reserve Hypothesis” suggests increases in neuronal connectivity will lead to better brain functioning, which is consistent with the “Use It Or Lose It” theory. These are the principles used to create the cognitive stimulation exercises used at the Geriatric Wellness Center.

1:15 – 1:30 p.m.; HL 107

Felipe Jasso and Valerie Ferguson

Faculty Sponsor: Rob Winningham

Title: Improving Balance and Mobility in the Geriatric Population Through Dual-Task Conditioning in Physical Therapy and Cognitive Stimulation

Abstract: Falls in the elderly are the leading cause of accidental death and are a major contributing factor in declining quality of life. Previous research suggests that gait analysis is a strong predictor for future falls amongst the elderly population. In addition, recent research suggests that older adults who perform poorly under dual-task conditions are at increased risk for falling. It has been demonstrated that balance performance is influenced by simultaneously performing a cognitive task. Though most interventions should begin as early as possible, studies support that age is not a factor in the ability to benefit from dual-task training.

1:30 – 1:45 p.m.; HL 107

Winnie Nie, Coren Michaud-Tradd, Kyle Plummer, Valerie Ferguson, and Felipe Jasso

Faculty Sponsor: Rob Winningham

Title: Increasing Geriatric Wellness Through Cognitive Rehabilitation and Dual Task Training

Abstract: In this presentation, we will demonstrate a group-based cognitive enhancement program in conjunction with balance and mobility activities. These exercises are designed to increase independence and improve the overall quality of life in a geriatric population. As a part of the curriculum, instructors facilitate participants in a classroom setting and they administer various memory enhancing activities as well as balance and mobility exercises. We will allow the audience to participate in a session typical of those conducted at The Geriatric Wellness Center.

1:45 – 2:00 p.m.; HL 107

Cortney Buchheit, Rebecca Farr, Raul Gomez, Ashlee Peila, Kyle Plummer, Kristen Staley, and Megan Stott

Faculty Sponsor: Chehalis Strapp

Title: The Effects of a Short-Term Mentoring Program on Middle Schooler’s Academic Achievement

Abstract: The current study explored the effects of a short-term mentoring program. Seven undergraduate students, including five females and two males mentored at-risk middle school students for six months. Mentors focused on individual goal setting and assessed progress across the program. In addition to academic improvements, middle school students showed increases in organizational skills, on-task behavior and frequency of positive interactions with teachers. Implications for mentoring middle school students are discussed.

2:00 – 2:15 p.m.; HL 107

Daniel Lima, Jennifer Hegbert, and Kyle Rossi

Faculty Sponsor: Lauren Roscoe

Title: Video Games and their Correlation to Emotional States

Abstract: This study focused on video games and their effects on emotional states. Specifically, we explored how graphical quality affects emotional states (measured by immersion), how level of difficulty of the game affects aggression, and how long-term violent video game players are affected by violence in games. The participants were Western Oregon University students (N=12, M = 24.42 years, SD = 9.45). We formulated a quasi-experimental pre/post test design, using a custom questionnaire. Results showed that participants that played a low graphical quality version were negatively correlated to immersion; difficulty was positively correlated to aggression; and long term gamers had a 4.16 percent decrease in aggression.

2:15 – 2:30 p.m.; HL 107

Fallon Stewart

Faculty Sponsor: Dave Foster

Title: The Effects of Instructor Student Psychological Contract Content and Features on Student Satisfaction

Abstract: A psychological contract is an individual's implicit beliefs about mutual exchange obligations between themselves and another party (Rousseau, 1989). Previous research focused on outcomes regarding breach and fulfillment of the contract in an employment setting. Similarities between student-instructor and employee-employer relationships suggest that this concept may be useful in understanding classroom outcomes. To date, studies examined the effects of either contract content or features; but not the combined effects of these variables. This study examined the joint effects of instructor-student psychological contract content and features on student satisfaction. Data were collected from 121 students from two different universities. Psychological contract content was assessed across nine different dimensions. Contract features of tangibility, stability and scope were also assessed. Hierarchical regression analysis showed that both contract content and features accounted for variation in student satisfaction. These results suggest that both psychological contract content and features should be considered when assessing psychological contracts.

2:30 – 2:45 p.m.; HL 107

Jessica Marsh, Jamie Fetter, and Barbara Wagner

Faculty Sponsor: Dave Foster

Title: The Effects of Self Esteem and Forming Group Decisions

Abstract: The current study predicted a relationship between member self-esteem, task expertise, group forming and group performance. Data were collected from 39, three-person groups. Participants either engaged in the forming task or read a brief paper on stages of group development. Afterwards participants completed two decision making tasks first individually, then as groups. Group Self-esteem Difference categories were calculated by comparing the

self-esteem scores of the highest task performer with the lowest performer. An ANOVA showed both a main effect for Self-esteem Difference ($p = .051$) and an interaction between Forming and Self-esteem Difference ($p = .047$). Groups whose best performing individual had self-esteem higher than the worst performing individual performed significantly better. Also, the Self-esteem Difference and Forming conditions supported one another in the hypothesized direction. These results suggest that it is the combination of expertise and the personality variable of self-esteem along with forming that provides more clarity concerning the groups' process.

2:45 – 3:00 p.m.; HL 107

Jamie Fetter, Jessica Marsh, and Barbara Wagner

Faculty Sponsor: Dave Foster

Title: The Effects of Emotional Stability and Performance Feedback on Group Decision Making

Abstract: This study examined the effects of neuroticism and feedback on group decision making. It hypothesized that groups low in neuroticism would outperform groups higher in neuroticism; groups given feedback would outperform non-feedback groups; and highly neurotic groups given feedback would perform worse than feedback groups with low neuroticism. Data were collected from 39, three-person groups engaged in two problem-solving scenarios. Performance feedback was provided by informing members of how their individual rankings compared to "expert" rankings after completing the first task individually and as a group. Neuroticism was assessed with seven items from the NEO five-factor personality scale (short version). Group-level neuroticism was calculated by aggregating individual levels. Hierarchical regression analyses showed no main effects for feedback or neuroticism. There were significant interaction effects for feedback and neuroticism $F(1,32) = 5.11, p < .05$. Results suggest that groups high in neuroticism may perceive feedback more negatively and react more negatively than groups low in neuroticism.

3:00 – 3:30 p.m.; HL 107

Psychology Awards Ceremony

Come celebrate with your peers as outstanding student research is recognized by WOUPSA.

3:30 – 3:45 p.m.; HL 107

Phillip Matthews

Faculty Sponsor: Dave Foster

Title: Adolescent Romantic Relationships

Abstract: This study hypothesized that the levels of Parental acceptance and closeness would negatively correlate with Attachment Related Anxiety and Avoidance in Adolescents romantic relationships. Ten participants identified as homosexual and 17 identified as heterosexual with a mean age of 21. The Revised Experiences in Close Relationships (ECR-R), along with measures of Parental Closeness and Parent Shared Activities were used in this study, which found a negative correlation between Father-Closeness and Attachment Related Anxiety and Mother Activity and

Attachment Related Anxiety for Homosexual Adolescents. No correlation was found for Heterosexual Adolescents. When the challenges faced by all adolescents are combined with those faced by Homosexual Adolescents such as, low societal acceptance, the threat of violence and fear of rejection, it is no wonder that these adolescents face difficulties in relation to attachment related anxiety when developing romantic relationships. It is imperative for their development that these youth receive the support necessary to develop healthy romantic relationships.

3:45 – 4:00 p.m.; HL 107

Tiffany Graves, Nicolle Clemmer, and Erin Machan

Faculty Sponsor: Kathryn Thompson

Title: Adult Children's Perception of Biological and

Stepparents: Then & Now

Abstract: There are an increasing number of stepfamilies in the United States (Love & Murdock, 2004). Family transitions can affect children's functioning (Ruschena, Prior, Sanson, & Smart, 2005) and increase parental stress (Nielsen, 1999). Students' relationships with parents, students' memories, and perceptions of parents and stepparents were measured and compared. Memories of parents were measured by four different forms of the Parental Caregiving Style Scale (one form for each of four types of parents). Students' perceptions of current relationships of all parents were measured on four different forms of the Inventory of Parent Attachment Scale. An ANOVA indicated a significant difference between participants' responses to the Caregiving Style Scale for all parents. Post hoc comparisons indicated that students remembered mothers more positively than other parents. An ANOVA indicated a significant difference between participants' responses to the Inventory of Parent Attachment Scale for all parents. Post hoc comparisons indicated that students perceived current relationships with mothers most positively.

4:00 – 4:15 p.m.; HL 107

Heidi Jackson, Anthony Ryals, Danielle Osborne, and Amanda J. Donahue

Faculty Sponsors: Joel Alexander and Katherine Schmidt

Title: Behavioral and Neurological Effects of the Freshman Experience Course

Abstract: As a dual-department collaborative effort, this study hypothesized that students enrolled in the Freshman Experience course would exhibit higher levels of writing self-efficacy and self awareness. Behavioral measures included 24 freshmen participants, who were given a 25-item writing self-efficacy scale and a four-component writing and knowledge test. Neurological measures included 13 freshmen (seven experimental, six control) who participated in a pre-post test oddball paradigm ERP evaluation. Previous research has shown that increased amplitude and latency in P300 ERP responses is indicative of increased levels of self-awareness. Preliminary results indicate significant increases in writing self-efficacy and research process knowledge; as well as significant increases in P300 ERP response amplitude. Results suggest that the Freshman Experience course is a beneficial addition to first-year curriculum, such that it provides students with integral skills necessary for long-term academic success.

Psychology

Session Chair: Lauren Roscoe

Session Title: Psychology Poster Session

Location: Hamersly Library (HL)

Posters:

9:00 – 11:30 a.m.; WC Pacific Room

Sara Hammonds

Faculty Sponsor: Chehalis Strapp

Title: Background Music Effect on Memory

Abstract: This research predicted that the presence of jazz music will negatively affect student performance on a memory test. Using a between subjects design, 50 participants, including 25 females and 25 males ($M=20.5$ years of age, $SD=1.54$). Participants were randomly assigned to take the same memory test in the presence of a jazz music piece or silence. The students that took the memory test in the presence of music had lower scores than students that took the test in silence. These results suggest that background music has a negative affect on memory performance.

9:00 – 11:30 a.m.; WC Pacific Room

Morgan Rogers

Faculty Sponsor: Chehalis Strapp

Title: Effects of Negative Priming on Work Completion

Abstract: It was predicted by this study that it would take participants longer to finish a word completion task if the word was of a different type than those preceding, that is if the preceding words left them negatively primed, than if the whole test was random. Using a between subjects design, 30 WOU students participated with half given a list of word completion tasks where the last word was a type of vegetable while all preceding were a type of animal, and half received a list with random words needing completion. Timing was only recorded on the tenth and last question of each test. Participants were slower on the nonrandom task, implying a negative priming effect.

9:00 – 11:30 a.m.; WC Pacific Room

Vina E. Brown

Faculty Sponsor: Chehalis Strapp

Title: The Effects of Light and Music on Mood

Abstract: This research predicted that exposure to full-spectrum light and especially full-spectrum light with nature-sounds music would improve participants' mood. Thirty participants, including 15 females and 15 males ($M=25$ years, $SD=5$), were conveniently selected. Using a mixed design half of the participants were randomly assigned to either the light with music group or the light without music group. Before and after exposure to the treatment each participant answered questions which rated their present mood. Participants' moods did improve according to the pre- and post-mood scores, and the participants who experienced light with music reported the most improvement. These results suggest that exposure to full-spectrum light and nature-sounds music improves mood.

9:00 – 11:30 a.m.; WC Pacific Room

Gregory Lewis

Faculty Sponsor: Chehalis Strapp

Title: Media and Aggressiveness

9:00 – 11:30 a.m.; WC Pacific Room

Winnie Nie

Faculty Sponsor: Chehalis Strapp

Title: Quantitative Study on the Effects of Multiple Choice Tests

Abstract: Multiple-choice tests are widely used in academic settings, especially in college introductory courses. Previous research has shown memory will improve later cued recall, however recall at later tests also produce false remembered data from lures produced in previous tests. A sample of 50 college students ($n=50$, 27 females, 23 males, M age 22) participated to replicate the above findings. Two groups watched a six-minute robbery scene and completed a different version of a multiple-choice test. Group A completed version containing three possible selections, while Group B completed version containing five possible selections. After a five-minute free write task, participants took an alternative version of test in the same format as originally assigned. Results in this study supported previous research findings.

9:00 – 11:30 a.m.; WC Pacific Room

Amber Nelson

Faculty Sponsor: Chehalis Strapp

Title: The Effects of Color on Consumer Interest

Abstract: The use of color in pictures and advertisements has an impact on consumer interest. Using a within subjects design, 50 participants, including 28 females and 22 males ($M=19.5$, $SD=1.26$) were conveniently sampled and given a packet of 10 pictures to rate on a series of Likert scales. Five pictures were presented in color, and then the same five pictures were presented in black and white. The colored pictures were rated higher than the black and white pictures in interest, attractiveness and likeliness to purchase. The results, $t(48)=2.08$, $p<.05$, two tailed, show that the use of color in pictures and advertisements does have an impact on consumer interest and makes the items in the pictures more appealing to the buyer/shopper.

9:00 – 11:30 a.m.; WC Pacific Room

Jessica Marsh

Faculty Sponsor: Chehalis Strapp

Title: The Effects of Forming on Individual Self-Efficacy

Abstract: It was hypothesized that group forming would affect individual self-efficacy. Using a mixed subjects design, data was collected from 45 participants, in 15, three-person groups (male= 15, female= 30, $M=19.6$ years, $SD=6.5$). Participants were randomly assigned to one of two forming conditions. Individuals filled out two self-efficacy questionnaires, one before and another after the study (The Core Self-Evaluation Scale (CSES), Judge, Erez, Bono, & Thoresen, 2003; Performance Appraisal Self-Efficacy

Scale (PASES), Bernardin & Villanova, 2005). The groups then completed a desert survival task. Results indicated a difference in self-efficacy after group forming ($t(14)=2.23$ $p<.05$, two tail). Because this study was one of the first to examine the combined effects of forming and self-efficacy, further research is needed to validify these results.

9:00 – 11:30 a.m.; WC Pacific Room

Kati Rule

Faculty Sponsor: Chehalis Strapp

Title: Dogs' Effect on Human Stress

Abstract: This research predicted that stress levels of participants could be reduced by the presence of a dog. This study is a between subject design with 20 participants (10-male, mean=20.5 years, $SD=1.7$; 10-female, mean=20.3, $SD=1.6$.) Each individual was randomly assigned to a room, one containing a dog and one without to take a test. Before entering each classroom stress levels were evaluated by recording their heart rate. The participants taking the exam with the dog were encouraged to interact with the dog for 10 minutes prior to testing. After completing the test both groups had their stress levels evaluated again as well as a stress inventory. The room containing the dog produced lower stress scores compared to the room without. The results suggest a dog has positive results on stress.

9:00 – 11:30 a.m.; WC Pacific Room

Daniel Lima

Faculty Sponsor: Chehalis Strapp

Title: Background Television and Its Effects on Recall Memory of Introverts and Extroverts

Abstract: This research predicted that introverts would score lower on recall memory tests, compared to extroverts, when exposed to background television. Using a within-subjects design, 35 participants, including 16 introverts and 19 extroverts ($M = 20.1$ years, $SD = 1.67$) were tested in silence and then tested with a background television. Introversion/extroversion was found using a modified version of the Eysenck Personality Questionnaire. Participants completed reading passages and tested on their recall memory in both conditions. Results showed introverts scored lower than extroverts with the television, while both groups scored similarly higher in silence. These results suggest that introverts were more distracted by the background television than extroverts and that recall memory is significantly affected by the presence of background television.

9:00 – 11:30 a.m.; WC Pacific Room

Joel Simon

Faculty Sponsor: Chehalis Strapp

Title: The Impact of Alcoholics Anonymous on Drinking Attitudes

Abstract: College students often need help with alcohol drinking behavior. Changing college students' alcohol attitudes could prevent future alcohol-related problems. Alcoholics Anonymous (AA) is one organization that provides information that helps people with alcohol

problems. This study focused on changing alcohol attitudes using a mixed design consisting of forty Western Oregon University students. One group will be given AA-based information, while the other control group will receive standard facts on drinking alcohol. Students' alcohol drinking attitudes will measure pre and post information using the Comprehensive Alcohol Questionnaire. It is expected that the change within the AA treatment group will be more significant than the control group, suggesting that AA can change alcohol attitudes.

9:00 – 11:30 a.m.; WC Pacific Room

Kathy Holmes

Faculty Sponsor: Chehalis Strapp

Title: Effect of Emotional Content in Noise on Learning

Abstract: This research predicted that retention and comprehension levels would differ based on exposure to either emotionally negative or emotionally positive external relevant meaningful sounds. Using a within subjects design, twenty participants, 10 males and 10 females ($M = 21$, $SD = .75$) were given similar articles to read while exposed to each independent variable. Participants were given a comprehension test following each article. It determined that there was a significant difference based on the emotional content of the external relevant meaningful sound (related $t(19) = 2.9$, $p < .01$, two tail). These results suggest that the emotional content of external relevant meaningful sounds affect a students' ability to effectively study and retain information.

9:00 – 11:30 a.m.; WC Pacific Room

Steven G. Martel

Faculty Sponsor: Chehalis Strapp

Title: Use of Adjectives to Describe Sexual Orientation

Abstract: This research predicted that undergraduate students will label homosexual males with more feminine adjectives compared to heterosexual males. Using a between sample design, 50 participants, including 25 males and 25 females ($M=19.4$ years, $SD= 1.06$) were randomly assigned to read a scenario describing one of two ambiguous males. Participants rated the male on a modified version of the Kinsey Scale and then from a list of 20 adjectives. They then chose which adjectives best described the male and then explained their reasoning. The male labeled by participants as a homosexual was assigned more feminine adjectives while the male labeled a heterosexual was labeled with more masculine adjectives. These results suggest that stereotypes influence perception of sexual orientation.

9:00 – 11:30 a.m.; WC Pacific Room

Alexis VanBrocklin

Faculty Sponsor: Chehalis Strapp

Title: The Effects of Ethnicity and Stereotypes on Ratings of Criminal Sentencing

Abstract: This research predicted that criminals would receive harsher punishments when their ethnicity matched

the stereotype for that particular crime. Crimes committed that were congruent with their stereotype (African Americans committing blue collar crimes and Caucasians committing white collar crimes) received more jail time than those who committed crimes that were not typical of the stereotype. Using a two by two, between subjects design, forty participants were randomly assigned to read a scenario containing a white collar or blue collar crime committed by either an African American or a Caucasian man. Participants rated the jail time they thought was accurate for the particular crime committed. As predicted, crimes matching the stereotype received harsher sentences than atypical crimes, suggesting stereotypes influence decision-making.

9:00 – 11:30 a.m.; WC Pacific Room

Jodie Miller

Faculty Sponsor: Chehalis Strapp

Title: The Effects of Media on Body Image

Abstract: This research predicted that media has a negative influence on females' body image. Using a within subjects design, 40 female participants ($M=20.5$ year, $SD=1.65$) were conveniently sampled from Western Oregon University to rate themselves on mood and appearance comparison before and after watching a video showing thin-ideal individuals. Mood was rated using a five-point Likert scale ranging from depressed to happy. Appearance comparison was rated on a body shape questionnaire illustrating photos of bodies that the participants matched themselves up with. The participants scored lower on mood scores related $t(39)=2.3$, $p<.05$, one-tail and higher on appearance comparison related $t(39)=3.1$, $p<.05$, one-tail. These results suggest that media negatively influences body image.

9:00 – 11:30 a.m.; WC Pacific Room

Kim Lander

Faculty Sponsor: Chehalis Strapp

Title: Violence and It's Effect on Mood and Blood Pressure

Abstract: This research predicted that mood would decrease and blood pressure would increase after viewing the human-animal video clip. Using a simple within design, 30 Western Oregon University undergraduate participants, including 15 female and 15 males ($M = 20.5$ years, $SD = 1.7$) were randomly assigned to Group A or Group B by choosing a playing card. Participant's mood and blood pressure was taken when they first arrived and after they viewed the violent video clips. Participants who watched the human-animal video clip had lower mood and higher blood pressure compared to human-human video clip. The results suggest that human-animal violence has a greater effect on mood and blood pressure than human-human violence.

9:00 – 11:30 a.m.; WC Pacific Room

Jonathan Thaher

Faculty Sponsor: Chehalis Strapp

Title: Functional Fixedness

Abstract: Functional fixedness is characterized by an inability to see past an object's intended use. This study hypothesized that students would see past the novel use of a lid quicker when placed besides a container, as opposed to on a container, thereby overcoming functional fixedness. Twenty college students participated in a between subjects design. The timer began when the student received directions and materials and ended when they took a bite of the applesauce ($M=2.15$ minutes, $SD=1.3$ minutes). The participants that were presented the lid separate from the container used the lid to create a utensil faster than those given the lidded container. Independent $t(19) = 2.35$, $p < .05$, one-tail. The results concluded that when the lid was beside the container, participants overcame functional fixedness quicker.

9:00 – 11:30 a.m.; WC Pacific Room

Beth (Betty) Dunn

Faculty Sponsor: Chehalis Strapp

Title: How a Newspaper Article Affects Perceptions about Gossip: Including Male and Female Differences

Abstract: This research predicted that a positive newspaper article about gossip would increase women's positive image of gossip and encourage men's attitudes to be positive (relative to neutral article). The participants included 15 male and 35 female ($M=22.5$, $SD=2.4$) students and people from the community. Using a mixed design the participants were alternatively assigned either the newspaper article about gossip or neutral newspaper article. First they took a survey of their opinions, read the article assigned, answered the second survey. The women's post-test opinion scores were more positive than the men's and all the post test scores were more positive than pre-test. These results suggest that gender and newspapers influence perceptions.

9:00 – 11:30 a.m.; WC Pacific Room

Rebecca Farr

Faculty Sponsor: Chehalis Strapp

Title: The Power of Music in Our Everyday Lives

Abstract: This research predicted the enhancement of mood in college students after listening to music of their choice relative to before listening. In a within-subjects design, 47 college students, predominantly untrained in music, chose music to listen to while reading a travel magazine. There were 29 females and 18 males ($M=20.21$, $SD=4.04$). Mood was tested before and after listening to music, using the Brief Mood Introspection Scale (Mayer & Gaschke, 1988). Participants indicated the music they chose and rated their enjoyment of it. Mood was expected to change in the direction of greater positivity. This study showed the importance and benefits of music in our everyday lives.

9:00 – 11:30 a.m.; WC Pacific Room

Megan Arendt

Faculty Sponsor: Chehalis Strapp

Title: Effects of Scent on Mood

Abstract: This research predicted that lavender and orange scents would have an effect on mood. Using a between subjects design, 50 participants, including 25 males and 25 females ($M = 20.5$ years, $SD = 1.21$) were randomly assigned to a scent group, and given anxiety-producing math test. Pre- and post-test blood pressure, heart rate and mood scale were taken. It was found that both males and females reported lower scores on the mood scale, with slight differences in blood pressure and heart rate. These results suggest that lavender and orange scents have an effect on mood.

9:00 – 11:30 a.m.; WC Pacific Room

Phillip Bunn

Faculty Sponsor: Chehalis Strapp

Title: Stereophonic Sound and Episodic Memory

Abstract: This study looked at whether stereophonic sound affects episodic memory differently than monaural or no sound, as prior research shows that increasing activation in the cerebral hemispheres is associated with enhanced performance on episodic memory recall (Christman et al. 2003) and that each ear activates the brain differently even if stimuli presented to them are identical (Naatanen and Picton 1987). Using a within subject design, I showed 40 Western Oregon University psychology students (20 male, 20 female) random sets of photographs and asked them to idle or listen to music before asking them to write what they remember. Students who listened in stereo recalled more than students who idled or listened to mono, suggesting that stereophonic stimuli augment recall.

9:00 – 11:30 a.m.; WC Pacific Room

Raul Gomez

Faculty Sponsor: Chehalis Strapp

Title: Implicit Prejudice Among College Students

Abstract: This research predicted that implicit prejudice exists more towards colored faces than white faces. Using a within-subjects design, the experiment sampled 30 college students: 23 Caucasians, five Latinos, and two African-Americans. The students were given four different types of cards. One set had pictures of white males on it; another had pictures of colored males. The remaining two had either smiley or Mr. Yuck faces. Participants were asked to sort the cards and match the white and smiley faces; the colored and Mr. Yuck faces; and vice versa. Each participant's trials were compared to see if they showed any prejudice. More implicit prejudice was displayed towards the colored faces. These results suggest that prejudice exists but isn't explicitly displayed in society.

9:00 – 11:30 a.m.; WC Pacific Room

Cortney Buchheit

Faculty Sponsor: Chehalis Strapp

Title: The Effects of Motivational Music on Mood and Helping Behavior

Abstract: This study predicted that exposure to motivational music would increase one's mood and willingness to help. Using a between subjects design, 30 participants (males, 14 and females, 16, $M=21.5$ and $SD=4.25$), were randomly assigned to listen to 15 minutes of motivational music or sit in silence for 15 minutes. Participants rated their mood and then were asked if they could provide further assistance with the experiment later in the week and how many minutes they could spend helping. The music group received higher ratings on their mood scores and volunteered to help more than the silent group, suggesting that motivational music increases one's mood and influences helping behaviors.

9:00 – 11:30 a.m.; WC Pacific Room

Ben Blackburn

Faculty Sponsor: Chehalis Strapp

Title: Effects of Clothing Type on Helping Behavior

Abstract: This study predicted that people would spend more time helping a well-dressed stranger versus a poorly dressed stranger. Using a between subjects design, 50 participants consisting of 27 females and 23 males ($M = 40$ years, $SD = 7.34$) were randomly exposed to a confederate who had dropped cans of food and was either well dressed, or who was poorly dressed. The amount of time participants spent helping to pick up the canned food was measured. More time was spent helping the well-dressed confederate than the poorly dressed confederate $T(48) = 2.85, p < .05$. These results suggest that people's willingness to help is influenced by the clothing worn by those in need of help.

9:00 – 11:30 a.m.; WC Pacific Room

Megan Stott

Faculty Sponsor: Chehalis Strapp

Title: Effects of a Social Postwarning on the Misinformation Effect

Abstract: This research predicted that participants who were warned about misinformation would be better at resisting the misinformation effect when treated as eyewitnesses to a crime. Fifty participants, including 20 males and 30 females, ranging from 18-25 years ($M=21, SD=2.5$), watched a video of a crime, were exposed to misinformation in the form of a narrative, and were tested to determine if the misinformation had entered their memory. This study used a between subjects design where participants were randomly assigned to either receive a warning about inaccuracies in the narrative, or not. As expected, participants who were warned were able to better resist influences of the misinformation effect than those who weren't warned. These results further prove the effectiveness of warnings.

9:00 – 11:30 a.m.; WC Pacific Room

Kyle Plummer

Faculty Sponsor: Chehalis Strapp

Title: The Effects of Anxiety on Working Memory

Abstract: Based on previous research (MacLeod & Donnellan, 1993), it was predicted that working memory would be negatively affected by anxiety. Using a between subjects design, 30 participants, including 18 females and 12 males ($M = 22.4$ years) will be randomly assigned to either a control or experimental group. In the experimental group, anxiety will be induced. Each participant will be asked to quickly read a list of words. After approximately 20 seconds, the participants will be asked to write down the list of words. The expected results should show the experimental group not remembering the list of words as well as the control. The expected results would suggest that anxiety has a significant negative affect on working memory.

9:00 – 11:30 a.m.; WC Pacific Room

Fallon Stewart

Faculty Sponsor: Chehalis Strapp

Title: The Effects of Media Portrayed Idealized Images on Thin Ideal Internalization and Appearance Related Anxiety of College Women

Abstract: The current research examines social comparison and internalization of the "thin ideal" of media images on college females' body focused anxiety. Using a between subjects design, a sample of approximately 50 female undergraduate participants will complete the Sociocultural Attitudes towards Appearance questionnaire followed by the Comparison to Models survey. By random assignment, participants will see photos of underweight models, average-weight models or neutral landscapes. Body-focused anxiety will be measured using the Physical Appearance State and Trait Anxiety scales. Females with high internalization are expected to have higher body-focused anxiety when social comparison tendencies are strong, compared to low internalizers, who are expected to have less body focused anxiety. Results indicate the negative impact of ultra-thin media images on body image.

Psychology

Session Chair: Lauren Roscoe

Session Title: Psychology Poster Session 1:00 – 3:30am

Location: Hamersly Library (HL)

Posters:

1:00 – 3:30 p.m.; WC Pacific Room

Liselott Hernandez

Faculty Sponsor: Chehalis Strapp

Title: The Influence of Stereotypes on Criminal Sentencing

Abstract: This research investigated the influence of racial stereotypes on criminal sentencing. It was predicted that subjects would give longer sentences to African Americans than Caucasians in cases of violent crimes. Using between subjects design, the sample of 24 subjects, including 18 females and six males ($M=19$ years, $SD=1.2$), were randomly assigned to judge two different groups of cases. In one group African Americans were related to violent crimes and Caucasians to non-violent crimes. In the other group, the cases were the opposite. Participants suggested a sentence for each of the cases. African Americans received longer sentences in violent crimes than Caucasians $F(2, 27)=9.32, p<.05$. The results suggested that racial stereotypes influence criminal sentencing.

1:00 – 3:30 p.m.; WC Pacific Room

Sylvie Tarpinian

Faculty Sponsor: Chehalis Strapp

Title: The Effects of Scent on Memory

Abstract: This study predicted that having an orange scent present during learning and recall of information would enhance memory performance. The experiment featured a between subjects design where 50 participants, 25 male and 25 female, ($M=21$, $SD=2.14$) were randomly assigned to learn and recall information under one of four conditions: control (no scent), scent at learning-no scent at recall, no scent at learning-scent at recall, and scent during learning and recall. The results showed that participants who were assigned to the scent during learning and recall condition had enhanced memory performance compared to all other groups. $F(1, 28) = 3.21, p<.05$. These results suggest that smell can have context-dependent effects on memory.

1:00 – 3:30 p.m.; WC Pacific Room

Ka Rin Mentzer

Faculty Sponsor: Chehalis Strapp

Title: White Collar vs. Blue Collar Crime: Does Race Play a Role in Sentencing?

Abstract: This research predicted that Blacks would receive harsher punishment for blue-collar crimes, while Whites would receive harsher punishments for white-collar crimes. Using a between subjects design, 56 participants, including 28 males and 28 females ($M=20.5$, $SD=2.10$) were randomly assigned to read a scenario that described either a white-collar crime (embezzlement), or a blue-collar crime (burglary).

The defendant was described as either a Black or White male. The Black males committing burglary received harsher sentences than Black males who committed embezzlement $F(3,53)=9.01, p<.05$, and the White males committing embezzlement received harsher sentences than those who committed burglary $F(3,53)=8.92, p<.05$. These results suggest that racial stereotypes concerning criminal behavior affect perceptions.

1:00 – 3:30 p.m.; WC Pacific Room

Amanda J. Donahue

Faculty Sponsor: Chehalis Strapp

Title: Background Verbal Music Effects on Verbal Versus Visuo-spatial Working Memory

Abstract: This research predicted that verbal short-term memory would be negatively affected by background music with words while visual short-term memory would not be affected at all. Thirty undergraduate students, including 15 males and 15 females ($M=20$ years, $SD=1.2$), were randomly assigned to do a visual or verbal memory task in a between-subjects design. Music with words was played in the background for both tasks. I hypothesize verbal distractions will have a negative impact on verbal working memory but will not negatively affect visuo-spatial working memory. These results support previous studies that have found words in the background negatively impact verbal information and help clarify that verbal information does not have a negative impact on purely visuo-spatial activities.

1:00 – 3:30 p.m.; WC Pacific Room

Joe Plasker

Faculty Sponsor: Chehalis Strapp

Title: Distraction Effects of Television

Abstract: Prior research suggests that watching television while doing homework is a negative distracter. Using a between subjects design, 35 participants, 19 females and 16 males ($M=20.2$, $SD=1.87$), were randomly assigned to perform tasks in silence (control group) or in the presence of television (experimental group). The participants completed two tasks: a set of math problems and a reading comprehension with questions. The participants in the experimental group are expected to score lower on the tasks as well as take longer to complete them. This would imply that television is a negative distracter while doing homework.

1:00 – 3:30 p.m.; WC Pacific Room

Jody Gordon

Faculty Sponsor: Chehalis Strapp

Title: Color and Memory on Older Adults

Abstract: This study anticipated the use of the warm color, orange, would stimulate and enhance memory in older adults compared to green. Using a between subjects design, 50 participants, including 20 males and 30 females ($M=76.1$ years, $SD=4.5$) were randomly assigned to study 15 line drawings of common objects pasted on green or orange poster board. After 20 seconds the participants were asked to

recall as many items as possible. The correct number of line drawings recalled was recorded. No significant difference in recall was found between orange or green as a background color, $t(48) = 1.73$, N.S., two-tails. These results indicate that color does not influence memory.

1:00 – 3:30 p.m.; WC Pacific Room

David N. Hunt

Faculty Sponsor: Chehalis Strapp

Title: Odor and Memory

Abstract: This study predicted that the out-of-context of vanilla odor would facilitate recall better than Pine-Sol. The participants were 60 volunteer students, with 32 male and 28 female ($M = 20.1$ years, $SD = 1.5$). Using a mixed design, participants were tested once in a control setting and then in an experimental setting. The results were compared between all subjects. The presence of one of two ambient odors was randomly assigned to the experimental setting. The dependent variable measured the number of words successfully recalled in retest. Results found that vanilla scores were significantly higher than both cleaner and controls. Implications of the study support previous research of context-dependent memory.

1:00 – 3:30 p.m.; WC Pacific Room

Cindy Zenger

Faculty Sponsor: Chehalis Strapp

Title: Syllable Length Effects on Word Recall

Abstract: This research predicted that one-syllable words are easier to recall than two and three syllable. Using a within subject design, 10 males and 15 females ($M = 22.0$ years, $SD = 2.00$) were randomly given a word list containing one, two or three syllable words. Participants studied the word list, and then they wrote down as many words they could remember from that list. The one-syllable words were recalled easier than two syllables, single sample $t(24) = 2.00$, $p < .05$, and two syllables were recalled easier than three, single sample $t(24) = 1.90$, $p < .05$. This suggests that syllable length does affect the words recalled the best.

1:00 – 3:30 p.m.; WC Pacific Room

Hillary Mann

Faculty Sponsor: Chehalis Strapp

Title: The Effects of Reward Contingency on Intrinsic Motivation

Abstract: This study predicted that the contingency of a reward will impact the level of intrinsic motivation. Using a between subjects design, 45 participants, including 15 males and 30 females ($M = 20.5$, $SD = 1.5$), were randomly assigned to task-contingent, performance contingent, or control groups. Participants were given a logic problem and their group determined the type of reward contingency. After completing the logic problem their intrinsic motivation was measured with the Intrinsic Motivation Inventory. The expected results are that performance-contingent rewards will increase intrinsic motivation more than task-contingent rewards and

that performance-contingent subjects will spend more time on the task than both the control and task contingent groups. These results would help to inform the public on the most productive types of rewards.

1:00 – 3:30 p.m.; WC Pacific Room

Alexander W. Lockett

Faculty Sponsor: Chehalis Strapp

Title: Aggression and Film Violence

Abstract: This research measured the effects of violence and aggression when watching an aggressive video. Using a within subjects design, 40 participants, 16 males and 24 females ($M = 20.5$ years, $SD = 1.3$) first took their pulse, then filled out a modified version of the Overt Aggression Scale focusing on state aggression. A three-minute video from the 2004 version of Walking Tall (PG-13) was subsequently viewed. The participants took their pulse again and filled out the Overt Aggression Scale. Participants were shown to have significantly more aggressive feelings and possessed higher heart rates after the stimulus of the video $t(39) = 3.01$, $p < .05$, $r^2 = .72$. These results suggest that aggressive media have an effect on aggression levels of viewers.

1:00 – 3:30 p.m.; WC Pacific Room

Joanna Freeman

Faculty Sponsor: Chehalis Strapp

Title: Effects of Word Length

Abstract: The purpose of the study was to test the word-length effect by finding if the participants recall short words better than long words. There were 50 participants including 25 males and 25 females. Via a lap top computer the control group was shown one-syllable words and the experimental group was shown three-syllable. Both groups were asked to recall the words in order. The findings of the study coincided with previous research: short words had a higher recall rate than long words. This study helps to show how our memory works and how to best use it knowing that people are able to recall a higher number of short words than long words.

1:00 – 3:30 p.m.; WC Pacific Room

Rose Silbernagel

Faculty Sponsor: Chehalis Strapp

Title: Healthy Relationships

Abstract: This research predicted that women of domestic violence disputes are seen as the victim compared to males. Using a between subjects design, 50 participants, including 25 females and 25 males ($M = 21$ year, $SD = 2$) were randomly assigned to read one of two scenarios. One scenario involved a man as the abuser and the women the victim; the other scenario involved the woman as the abuser and man as the victim. Participants rated who was more likely the victim in the scenario using a Likert scale. The female was often rated as the victim in both the scenarios compared to the male. These results suggest that women are perceived as victims in domestic violence scenarios.

1:00 – 3:30 p.m.; WC Pacific Room

Jason Lewis

Faculty Sponsor: Chehalis Strapp

Title: Infidelity and Sex Differences

Abstract: The current study hypothesis is that there is a sex difference over-expressed jealousy with an infidelity involving “falling in love” (no physical contact) versus “sexual intercourse” (no emotional attachment), with males more jealous over a physical infidelity, whereas females are more jealous over an emotional infidelity. This between subjects design involved 40 participants, 20 males and 20 females ($M=20.1$, $SD=1.13$) all were given two imaginary stories separately involving both a serious partner’s physical and emotional infidelity. The completed jealousy scale found females to display more jealousy in an emotional infidelity whereas the male results lead to higher jealousy in a physical infidelity. This evidence leads to the conclusion that there is a sex difference between emotional versus physical infidelity.

1:00 – 3:30 p.m.; WC Pacific Room

Melissa Tee

Faculty Sponsor: Chehalis Strapp

Title: Cultural Influences on Perceived Academic Self-Efficacy: Understanding the Effects of Asian Cultural Beliefs

Abstract: This research predicted that participants exposed to reminders of their Asian cultural heritage would display higher beliefs of academic self-efficacy. Using a mixed subjects design, 200 Asian participants, including 110 females and 90 males ($M = 21$ years, $SD = 4$) were recruited from multicultural clubs. Participants were randomly assigned to either a cultural reminder condition (exposure to character names of “Minh” or “Mai”) or a non-cultural reminder condition (names of “Alex” or “Jessica”). Pre- and post-tests assessed their belief in their ability to complete an academic task. The cultural reminder group received higher scores of self-efficacy on posttests than controls. Results suggest that culture influences academic self-efficacy.

1:00 – 3:30 p.m.; WC Pacific Room

Melinda Johnson

Faculty Sponsor: Chehalis Strapp

Title: The Effects of Background Music on Memory Task Performance

Abstract: It was hypothesized that non-lyrical background music would improve memory scores in opposition to silence, and lyrical background music would yield lower memory scores than silence. A between subjects design including 50 Western Oregon University students, ages 18-25 years, was used to manipulate a background of silence, lyrical music or non-lyrical music. Participants read a short passage and viewed a picture. A series of questions were then given to measure memory. It was predicted that the highest memory scores would be found in the presence of non-lyrical music, while the lowest scores would be found with the lyrical music. Results suggest background music affects memory.

1:00 – 3:30 p.m.; WC Pacific Room

Aimee Miller

Faculty Sponsor: Chehalis Strapp

Title: Effects of Scent on Mood State

Abstract: The purpose of the present study is to further evaluate the influences of aromatherapy and mood states in terms of physiological reactions to different tasks provoking anxiety, depression and stress. Participants will be healthy college students at Western Oregon University, who will be randomly selected from the interpreting program and through a sign-up in Todd Hall. This study is a mixed design. The scents will include rosemary and lavender along with water for the control group to further investigate the correlation with odors and mood states. The q-tips of scented essential oils will be given after the completion of the Profile of Mood States to assess mood. An imagery of the beach will be posted and then another completion of POMS to measure the ratings. Participants from rosemary condition will have increased alertness, and energy and lavender condition will show decreased depression and anxiety.

1:00 – 3:30 p.m.; WC Pacific Room

Erin Johnson

Faculty Sponsor: Chehalis Strapp

Title: Effects of Physical Attractiveness on Recommended Punishment

Abstract: This research predicted that facial attractiveness of a criminal effects the severity of recommended punishment. Using a between subject design, 21 participants, including 12 females and 9 males ($M = 20.5$ years, $SD = 1.21$) were randomly given a picture of an attractive or unattractive criminal, a scenario of a blue-collared crime and then suggested the duration of punishment. The criminals that were rated more unattractive received lengthier sentences of jail time ($M = 6.7$ years, $SD = 1.12$), than the criminals who were perceived to be attractive ($M = 2.4$, $SD = 1.24$). These results suggest that physical biases are associated with criminals’ recommend punishment.

1:00 – 3:30 p.m.; WC Pacific Room

Noreen Valdez and Melissa Tee

Faculty Sponsor: Tamina Toray

Title: Risk Factors for Maladaptive Eating Patterns in Early College Years

Abstract: As empirical literature on maladaptive eating patterns has grown, it has become apparent that longitudinal studies are essential in establishing causal risk factors. The current study reports longitudinal data gathered at 12-month (T1) and 20-month (T2) intervals after college freshman women ($N = 338$) completed questionnaires during fall, 2003. Eating pathology was assessed using a composite measure from the Eating Disorders Inventory. Out of all nine risk variables measured, Reassurance Seeking was the only variable that contributed significantly to the regression. Eating symptoms were fairly stable across the T2 period: hierarchical regression with T2 eating symptoms entered as the first step was significant, $R^2 = .51$ ($p < .001$). Hierarchical

regression across T1 was also significant, $R^2 = .53$, ($p < .001$). Findings suggest that individuals who may be insecure in their interpersonal relationships and who frequently seek out reassurance from others may be prone to developing eating pathology symptoms.

1:00 – 3:30 p.m.; WC Pacific Room

Eric Nicolarsen

Faculty Sponsor: Dave Foster

Title: Sleep Deprivation and its Effects on Cognitive Ability

Abstract: Previous research has indicated sleep deprivation affects an individual's executive functioning and other cognitive ability tasks. In the present study 25 volunteers, 16 females, nine males, mean age of 20.92, were given a logical and mathematical test. The results were then compared to a self-reported average amount of sleep in the past week. It is hypothesized that the more sleep deprived the individual is, the worse they will perform. The results showed a strong relationship between the amount of sleep the participant had and the score on the logical test, $r(25) = .406$, $p < .05$, and a strong relationship amount of sleep and the mathematical test score, $r(25) = .444$, $p < .05$. These results are significant because college students face this daily.

1:00 – 3:30 p.m.; WC Pacific Room

Philip Reid

Faculty Sponsor: Dave Foster

Title: Situational Leadership: A Proposed Revision

Abstract: Leadership is a dynamic process that develops through leader-follower relationships. The Situational Leadership Theory (SLT) identifies leader behavior based on the level of competence and commitment perceived in subordinates. The SLT prescribes a leadership style that provides supportive (relationship) and directive (task) behaviors. The current project includes research on the theory, as well as studies that focus on the ambiguous aspect of leader perception and will offer suggestions to revise the theory for a more accurate perception of subordinate development. The SLT has the potential to be successful; however consideration must be made for the ambiguity of leader perception. Previous studies indicate that the SLT requires the leader to make accurate perceptions followers; this is a source of concern in the SLT. If the ambiguity of this model can be clarified, the SLT could provide a useful and prescriptive tool for current and developing leaders.

1:00 – 3:30 p.m.; WC Pacific Room

Constance Harris

Faculty Sponsor: Dave Foster

Title: Women in Leadership

Abstract: Women in America currently earn more than half of the MBAs awarded each year and comprise half of the U.S work force, although very few women reach top management positions. Studies for this review were selected on the basis of how women are viewed as effective leaders in masculine-oriented managerial behavior of discipline,

work attitudes, role-modeling behavior and culture of the organization. This review is to determine why women are not holding more CEO, CFO, COO, and top managerial positions. The results of this review show that women are perceived differently than men when having the same characteristics. These results suggest that in order for women to reach top positions they need to work harder than men in order to achieve the same positions.

1:00 – 3:30 p.m.; WC Pacific Room

Sarah Szabo and Kris Clifton

Faculty Sponsor: Dave Foster

Title: The Role of Chewing Gum in Memory: Is it Context or Dependent

Abstract: This study tests the hypothesis that chewing gum can lead to cognitive enhancement at the time of recall due to the delivery of glucose and/or context-dependent learning by comparing the cognitive performance effects of chewing gum with glucose to the effects of chewing gum without glucose and by not chewing gum at all. Participants included 26 undergraduate psychology students aged 18-30 (mean 20.76). Participants completed a 15-word memory recall test under one of three conditions involving chewing gum, sugar-free chewing gum, and no gum. Despite previous research that has supported cognitive enhancement through chewing gum, there was not a statistically significant difference $F=.296$, $p<.747$) between groups that chewed sugared gum, sugarless gum or no gum at all.

1:00 – 3:30 p.m.; WC Pacific Room

Bentley Fink

Faculty Sponsor: Dave Foster

Title: Authentic Leadership

Abstract: Authentic Leadership or Positive Organizational Behavior (POB) today is gaining popularity among leadership researchers. Bruce Avolio, a prominent leadership researcher, explains authentic leadership as "a process that draws from both positive psychological capabilities and a highly developed organizational context, which results in both greater self-awareness and self-regulated positive behaviors on the part of both leaders and associates, fostering positive self-development." In other words, leaders must possess clear self-awareness, and this involves knowing one's values, being aware of one's emotions, identities and motives/goals. Self-regulation comes in the form of being able to be introspective or to have personal insight, to have unbiased balanced processing of self-related information, and high levels of openness, self-disclosure and trust in close relationships. This paper will review articles and publications on authentic leadership, and will serve as the basis for a poster project discussing authentic leadership.

1:00 – 3:30 p.m.; WC Pacific Room

Jennifer Beller and April Hudson

Faculty Sponsor: Dave Foster

Title: The Relationship Between Parent and Student Involvement on Academic Achievement

Abstract: The purpose of this study was to examine the relationship of student and parent involvement on college academic achievement. The participants were college students at a small public university in the Pacific Northwest. Nineteen male and female psychology students participated in completing the survey used for this study. It was hypothesized that there is a positive correlation between student and parent involvement and academic achievement, as measured by cumulative GPA scores. The study was conducted using adapted questions from two different surveys (CSXQ and PIS) measuring levels of parent and student involvement. This study found a significant positive correlation between student class involvement on GPA. This study shows the importance of class involvement on a student's academic performance.

1:00 – 3:30 p.m.; WC Pacific Room

Alex Adams

Faculty Sponsor: Dave Foster

Title: An Examination of the Situational Approach of Leadership

The situational approach to leadership suggests leaders can adapt to one of four leadership styles that uses task and relationship behaviors as guidelines. One style directly correlates to one of four developmental levels of followers that uses commitment and competence as guidelines. Various studies examining the validity of this theory were examined. Studies were selected on the basis of location, method and conclusions. The studies showed situational leadership potentially works in singular applications but cannot be universally applied to multiple applications as the theory states. These mixed results suggest that more research needs to be conducted and/or the theoretical approach reevaluated or rewritten before it can be considered an effective leadership theory.

1:00 – 3:30 p.m.; WC Pacific Room

Jessica Marsh

Faculty Sponsor: Dave Foster

Title: Leadership Punishment Behaviors

Abstract: One of the major issues in leadership behavior is determining the style of leadership that will increase goal achievement. Numerous studies have investigated the differences between leader reward and punishment behaviors in organizations. Past research has suggested that leaders who use reward behaviors are more effective in promoting employee performance and satisfaction than those using punishment behaviors. Research now proposes that the use of punishment may be positively related to the satisfaction and performance of subordinates. However, the effectiveness of leader punishment behavior is dependent on critical factors including the type of punishment used. The purpose of this study is to further examine past research on the use of punishment in order to enhance our ability to train effective leaders.

1:00 – 3:30 p.m.; WC Pacific Room

Jamie Fetter

Faculty Sponsor: Dave Foster

Title: Gendered Leadership Styles and Leader Assessment

Abstract: Traditionally, society as a whole has held to preconceived notions regarding gender and leadership; males are typically seen as being more successful than their female counterparts. These stereotypical beliefs may be due to the different leadership styles that members of both sexes conventionally employ. This current project examines the different styles that run common to each gender when in a position of leadership. Studies under review were selected on-line, through the academic journal search engine, PsychInfo. Keywords used for said search included: gender, leadership, leadership styles and assessment. Results from these compiled studies show that, on average, both male and female leaders manage in very similar fashions. However, males tend to lead in a more autocratic and direct manner than their female counterparts, while female leaders were found to focus more on interpersonal than task-based matters. Further research needs to explore this subject to expand our understanding of leadership and gender.

1:00 – 3:30 p.m.; WC Pacific Room

Amanda Bales

Faculty Sponsor: Dave Foster

Title: The Influences of Gender on Leadership Style

Abstract: Research in the area relating to gender and leadership shows that in experiments where the subject is not constrained by long-term social relationships, men and women in leadership roles behave gender-stereotypically. In settings that measured natural settings, female leaders were seen as more democratic, scoring higher in relational areas than men, who were rated as more authoritarian. The results of these studies indicate that women's democratic style may be more effective overall in leadership positions than men are, but all studies suggest continued research into this complex area of organizational psychology. The purpose of this project is to examine the studies that have been performed about gender in the workplace specifically regarding leadership, and learn about how strong stereotypes are in the workplace. Studies about this subject were selected from a variety of scholastic journals such as *The Journal of Social Issues* and *Psychology of Women Quarterly*, among others.

1:00 – 3:30 p.m.; WC Pacific Room

Morgan R. Hutmacher

Faculty Sponsor: Dave Foster

Title: Spirituality and Leadership

Abstract: Spirituality, which is considered to be a set of individual values, includes many different features. Many research studies have been done on the impact of spirituality on leadership, and the outcome has generally been that spirituality does have an impact. The purpose of this study is to examine the effect of spirituality on leadership. A review of recent journal articles examining the link between spirituality suggests that spiritually is

related to leader effectiveness. Specifically, leader integrity, honesty, and humility have been strongly linked with leader effectiveness. Another finding in this research is that in order to enhance your leadership skills, you must first be more aware of your personal strengths and weaknesses, which is a significant part of spirituality. Several studies examining the impact of spirituality on leadership are discussed. The results suggest spirituality is an important component of effective leadership.

1:00 – 3:30 p.m.; WC Pacific Room

Roxcella Paoff

Faculty Sponsor: Eric Cooley

Title: Academic Performance and Retention of College Students

Abstract: A three-year longitudinal study was conducted in order to better understand the variables that contribute to academic performance and retention of college students. Assessments were given to incoming freshmen (N = 514) at three different time periods over the course of the study. The measurements analyzed levels of commitment to college, impulsiveness, depression and academic self-efficacy. Each student's grade point average and enrollment status was obtained at the end of the freshmen year and after fall term of the junior year. Students' high school GPA and SAT scores were also acquired. The goal of analyses was to identify variables which predicted academic success (GPA) and continued enrollment at the university. The most powerful predictor of academic performance was high school GPA. Depression was a significant predictor of GPA and of enrollment status at the end of the freshmen year. Levels of depression and commitment were significant in forecasting enrollment status of juniors at the end of fall term.

1:00 – 3:30 p.m.; WC Pacific Room

Anthony Ryals

Faculty Sponsor: Dave Foster

Title: Jungian Typology and the MBTI within Leadership

Abstract: The psychodynamic approach to leadership posits that effective leaders possess strong insights into their own behavioral patterns (personality types). Such insights allow leaders to understand their own actions, and reciprocal interactions with followers. According to C. G. Jung, personality may be typed using three dimensions: Extroversion-Introversion, Sensing-Intuition and Thinking-Feeling. Jung believed that one predominant type (normal mode) organizes experiences, thus it defines personas. This project examined the role of Jungian typology in understanding leadership. Specifically, this project explored the use of the Myers-Briggs Type Indicator (MBTI). The MBTI assesses core tenants of Jungian typology, and it is widely used for personality typing in hiring practices and leadership roles. Several arguments for and against the validity of the MBTI in hiring and leadership are examined.

1:00 – 3:30 p.m.; WC Pacific Room

Tricia Brigham

Faculty Sponsor: Dave Foster

Title: Validation of Contingency Theory

Abstract: Contingency theory is an approach that tries to match leaders to the situations that would best fit their leadership style. The purpose of this project was to examine the validity of the contingency theory and how the Least Preferred Coworker (LPC) scale is used in the contingency model. Studies were selected for this project by finding articles that talked about the validity of the theory and the prevalence of the LPC to the approach. The results show that the validity of the contingency theory is still under question even today. Some studies have shown support for the model while others still criticize its value and recommend improvement of the theory. The lack of strong empirical support, however, has not prevented its widespread use in leadership training programs. The implications of these results are discussed in the project.

1:00 – 3:30 p.m.; WC Pacific Room

Eric Nicolarsen

Faculty Sponsor: Dave Foster

Title: Is There One Definitive Skill Required?

Abstract: According to the skills approach to leadership, effective leaders have different knowledge and skill sets compared to non-leaders. Katz hypothesized that these skills could be classified into three categories: technical, human and conceptual. In contrast, Mumford and his colleagues posited a more complex model that included both individual attributes and core competencies. These competencies were problem solving skill, social judgment skills and knowledge. The purpose of this project was to examine what factors determine the relative importance of various skills to leader effectiveness. Reviewed studies were selected by using leadership skills, and management skills and leadership as keywords in EBSCO Host database. Results suggest the job position determines the various skills to leader effectiveness. Implications of these results are discussed.

1:00 – 3:30 p.m.; WC Pacific Room

Dayna Ayala

Faculty Sponsor: Dave Foster

Title: Ethnicity Problems in Leadership

Abstract: A large body of research has examined the impact of gender on leadership. Very little, research, however, has examined the impact of ethnicity on leadership. The purpose of this study was to examine the various issues associated with ethnicity and leadership. Articles were selected for this project by searching for projects where they have been able to identify that these problems existing and these problems were overcome. These articles suggest that minority groups experience certain barriers to attaining leadership positions. These barriers may include discrimination and inaccurate perceptions of their leadership ability. The words that I used when searching for these types of articles were

as follow: leadership, discrimination, skills and minority groups. This helped me narrow down the information for my topic. Implications are discussed to examine why people discriminate when choosing a leader and if the real reason and not discrimination. Another implication that needs to be taken into account is whether choosing a leader that is from the same background as its followers will achieve greater results.

1:00 – 3:30 p.m.; WC Pacific Room

Jenise Miyashiro and Shantya Jackson

Faculty Sponsor: Lauren Roscoe

Title: Risky Decision Making in Relationship to Extraversion and Conscientiousness

Abstract: This study examined the relationship between risky decision-making and personality traits. Data were gathered from a sample of college-level psychology students from whom approaches to risk were likely to vary. We considered the degree to which Extraversion and Conscientiousness influenced the types of decisions an individual made when assessing the costs and benefits using the IOWA gambling task. The NEO Five Factor Model Personality Questionnaire (short version) was used to measure the students' personality traits. The results showed that personality can make a valuable contribution to our understanding of risky behavior. The assessment of costs and benefits between Extraversion and Conscientiousness were significantly different. We found that as Extraversion went up, conservative decision-making went down.

Sociology

Session Chair: Dean Braa

Session Title: Research and Praxis (Activism) in Sociology

Location: Humanities and Social Sciences (HS)

Presentations:

8:30 – 8:45 a.m., HS 235

Dean Braa

Presentation Title: Sociology at WOU

8:45 – 9:00 a.m., HS 235

Sarita Winterrowd-Lundin

Faculty Sponsor: Dean Braa

Title: Poverty and Public Housing in Marion County

9:00 – 9:15 a.m., HS 235

Holly Tucker

Faculty Sponsor: Peter Callero

Title: Mental Illness in the Media

9:15 – 9:30 a.m., HS 235

Jessica Bonar

Faculty Sponsor: Maureen Dolan

Title: Service Learning at the White Crow Foundation

9:30 – 9:45 a.m., HS 235

Shaun Christiansen

Faculty Sponsor: Peter Callero

Title: Problems in the Criminal Justice Concept of Gang Member

9:45 – 10:00 a.m., HS 235

Aislyn DeCorte

Faculty Sponsor: Peter Callero

Title: Employer Attitudes Toward Convicts

10:00 – 10:30 a.m., HS 235

Maureen Dolan/Students

Faculty Sponsor: Maureen Dolan

Title: Sociology and Latino Mentoring

10:30 – 11:00 a.m., HS 235

Sarita Winterrowd-Lundin/Students

Faculty Sponsor: Peter Callero

Title: Community Organizing: Monmouth-Independence Tenants Union

11:00 – 11:15 a.m., HS 235

Holly Tucker and Tiffani McCoy

Faculty Sponsor: Dean Braa

Title: Praxis (student club) and Activism

11:15 – 11:30 a.m., HS 235

Sociology Department

Title: Open Forum: Discussion

Speech Communication

Session Chair: Emily Plec

Session Title: Undergraduate Papers from the 2006

Northwest Communication Association Conference

Location: Werner University Center (WC)

Presentations:

10:00 – 10:15 a.m., WC Willamette Room

Lee Clarkson

Faculty Sponsor: Emily Plec

Title: Super Size Me: Will Extreme Approach Spark Extreme Change?

10:15 – 10:30 a.m., WC Willamette Room

Steven Sharp

Faculty Sponsor: Emily Plec

Title: Roper v. Simmons: An Analysis of Oral Argument

10:30 – 10:45 a.m., WC Willamette Room

Stacie Wells

Faculty Sponsor: Emily Plec

Title: Fostering Cultural Acceptance: A Narrative Criticism of Finding Forrester

10:45 – 11:00 a.m., WC Willamette Room

Maria Austin

Faculty Sponsor: Emily Plec

Title: Emmeline B. Wells: Revolutionary Woman of Words and Action

Speech Communication

Session Chair: Emily Plec

Session Title: Junior Honors Seminar Poster

Presentations: Masculinities in Media

Location: Werner University Center (WC)

Posters:

1:00 – 3:30 p.m., WC Pacific Room

Katie Keetle

Faculty Sponsor: Emily Plec

Title: Masculinity in the City: The representation of masculinity in Sex in the City

1:00 – 3:30 p.m., WC Pacific Room

Mary Steers

Faculty Sponsor: Emily Plec

Title: Title IX: It's a whole new ball game

1:00 – 3:30 p.m., WC Pacific Room

Joanna Ridgway and Ambyre Phelps

Faculty Sponsor: Emily Plec

Title: The Media Construction of Masculinity in Celebrity Gossip Magazines

Teacher Education

Session Chair: Gwenda Rice

Session Title: Academic Excellence in Teacher Education

Location: Education (ED)

Posters:

8:00 – 9:30 a.m., ED 217

Toby Lawrence and Rita Chapell

Faculty Sponsors: Mary Bucy and Dana Ulveland

Title: Oral History Project

Abstract: This project, developed to celebrate Western Oregon University's sesquicentennial, represents a small sampling of three educational history projects carried out by the students in Education 312: Teachers, Schools and Society class. The first project was an oral history project. Each student in the class interviewed one or two Western Oregon University graduates who attended this institution. The second project was a library exhibit, sharing educational artifacts from the past. The third project was a Western Oregon University timeline, showing some of the significant events in WOU's history.

8:00 – 9:30 a.m., ED 217

Rita Chappell, Janna Limbert, Benjamin Schwartz, Charlene Henrikson, Lauren Adams, Jessica Yoder, Gail York, Cathy Osborne, Travis Wright, Shelley Holmes, Kyle Gibbons, Curtis Toombs, Erin Seaney and Mallory Scott

Faculty Sponsors: Chloe Myers and Mary Bucy

Title: Community Mapping

Abstract: The Corvallis PDS Winter Cohort researched the Monmouth/ Independence area for their Community Mapping Project in Term I. They utilized a range of technology and traditional means to present their findings. Their in-depth study demonstrates how knowledge of the community enhances teaching and learning. Team collaboration and technical expertise are evident throughout the presentation.

8:00 – 9:30 a.m., ED 217

Jessica Fregosa

Faculty Sponsor: Linda Cress

Title: Teaching the Great Depression: A Look at the Importance of Differentiated Lesson Plans in a High School History Class

Abstract: Ways of differentiating lesson plans to increase student learning and performance, focused specifically on a high school history class exploring the Great Depression. Techniques used in the work sample include: lecture, modified note-taking, jigsaw activities, simulations, primary source readings, poster projects and films.

8:00 – 9:30 a.m., ED 217

JuliAnn Olson

Faculty Sponsor: Linda Cress

Title: Rainforest Unit – 2nd Grade – Glad Strategies

Abstract: Whether we have the opportunity to visit or can only travel through our imagination, everyone should have the opportunity to experience the lush green leaves, intimidating trees, and murky waters of a tropical rainforest. Our wonderful world has incredible contrasts. From the cold waters of the Arctic to the hot deserts of the Middle East, the Earth presents students with opportunities for understanding a vast variety of landforms and cultures. My lessons will offer students an experience that will tickle their desire to visit a tropical rainforest, even if it can only be done through a book.

8:00 – 9:30 a.m., ED 217

Stephanie Brewer

Faculty Sponsor: Linda Cress

Title: Write On!

Abstract: Is it possible to not only help 120 middle school students improve their writing skills but to make the experience enjoyable for them? This compilation of lessons addresses a variety of writing subjects, including:

- Friendly letter writing
- Filling out job applications
- Listening
- Writing numbers
- Summarizing
- Resume writing
- Capitalization
- Business letter writing

Better yet, these lessons are presented in such a way that even the most “picky” seventh grader can still enjoy the experience. Taught in a two-week time period, these lessons also include reflections of the actual teaching and the learning gains of the students. Enjoy!

8:00 – 9:30 a.m., ED 217

Parma Ferguson

Faculty Sponsor: Tracy Smiles

Title: Learning Literacy with Zach

Abstract: This presentation reports my tutoring experience at Independence Elementary School with a gifted and talented student named Zach. The experience included conducting several formative assessments, teaching guided reading and engaging students in a literature discussion and creative writing. This poster session illustrates my process of creating critically conscious curricular engagements with Zach that built upon his personal interests and challenged him academically. In addition, Zach and I formed a friendship that continues with occasional correspondences through letter writing and email.

8:00 – 9:30 a.m., ED 217

Jordie Myrick

Faculty Sponsor: Tracy Smiles

Title: Imagination Adventures: Using Books of Interest to Foster a Love of Reading and Writing

Abstract: “Imaginationing” is not a spelling error; this word was coined by Lilly (pseudonym), a first grader at Independence Elementary School who realized the character in our story was imagining her adventure. Lilly drew on this information to make text-to-self connections and eventually wrote a brief story about her own adventure. However before Lilly and I explored our own adventure stories in writing we completed Running Reading Logs, which assessed Lilly’s schema and reading level, practiced mini-literacy circles with other students and studied reading strategies.

8:00 – 9:30 a.m., ED 217

Kendra Boettger

Faculty Sponsor: Maria Fung

Title: Geometry in Animation

Abstract: This geometry lesson is designed to help students:

1. recognize and name geometric shapes in animated cartoon frames and
2. use basic geometric shapes to create cartoon frames.

Anticipatory Set: The lesson begins with a quick review of geometric shapes using a game called “What’s My Shape?” After the game, the class will review the “Geo Rap” that they have been learning throughout the unit.

Lesson:

1. Read Barba Papa at Work (1979) reminding students to find as many shapes as they can in the cartoon pictures.
2. Group Shape Search—Students gather in groups and work together to find and color in as many shapes as they can on the huge Barba Papa storybook pictures that are on butcher paper throughout the room. They use the worksheet to circle each shape that they found and tally the number.
3. Students then choose from various 8.5 X 11 Barba Papa story pages. They choose a character on the page and create a three-page animated book, using basic geometric shapes to build their animated object or character.

Closing: Students write in their “Math is Reflection” journals, about one shape that they learned more about through the lesson.

8:00 – 9:30 a.m., ED 217

Rita Frey

Faculty Sponsor: Maria Fung

Title: Learning the Basic Facts: Addition

Abstract: This project is a short PowerPoint lesson plan addressing how to teach the take-apart method of addition including the use manipulatives. The presentation begins with an introductory activity to “wake up the math brain.” This helps students practice listening to others in the room, staying on task, and creating a cooperative classroom environment. Next, the students work with manipulatives to practice the “break apart” method of addition. At the end of the lesson the teacher reinforces the information learned. Included is a sample worksheet for assessment purposes.

8:00 – 9:30 a.m., ED 217

Jacinta Hyskell

Faculty Sponsor: Maria Fung

Title: Fraction Activities

Abstract: In this poster presentation we will consider some activities for introducing key fraction concepts to elementary school students.

Teacher Education

Session Chair: Mark Girod

Session Title: Academic Excellence in the Masters of Arts in Teaching (MAT) Program

Location: Education (ED)

Posters:

1:00 – 2:30 pm, ED 217

Capi Adams

Faculty Sponsor: Gwenda Rice

Title: Forensics in the Physical Science Classroom

Abstract: My presentation will be on a forensics unit taught during my first semester of student teaching. The unit was taught in a freshman physical science classroom, and lasted two weeks. I will talk about the different laboratories the students completed, evidence collection, staging the mock crime scene and projects the students completed based on this unit. I will also speak a little about how forensics can be incorporated into the physical science classroom.

1:00 – 2:30 pm, ED 217

Deanna Bergstrom

Faculty Sponsor: Gwenda Rice

Title: Mini Unit on Chemistry: Phases of Matter

Abstract: This mini work sample covered a unit of high school chemistry on Phases of Matter. The unit was taught over three weeks during winter term, 2006, at Corvallis High School, to two classes of 9th to 12th graders. The mini

unit included all the elements of a work sample. The goals and objectives for the unit were based on Oregon state standards. The pre-assessment was used to determine if there were misconceptions that needed to be addressed in the unit, as well as prior knowledge. An extensive analysis was performed on learning gains to understand how the unit could be improved for the future.

1:00 – 2:30 pm, ED 217

Alana Yankus

Faculty Sponsor: Gwenda Rice

Title: Literary Terms: A Worksample

Abstract: This is a worksample mini-unit taught at Corvallis High School in the winter of 2006. It utilizes a variety of teaching strategies to teach literary terms to 10th, 11th and 12th grade students in a Poetry Reading and Writing class so they can then apply those terms to the analysis of works by such poets as Walt Whitman and Emily Dickinson.

1:00 – 2:30 pm, ED 217

Amy Stricklin

Faculty Sponsor: Amanda Smith

Title: Tomorrow's Future

Abstract: High school leadership classes should be more than just the popular students doing the fun things around school. Students need to be able to understand the responsibility of being leaders. Through the course of the Leadership in Training students develop self and community awareness. With training in Parliamentary Procedures, communication skills, etc. students learn the basics and then apply their newly honed skills in real opportunities in the community. Each student is required to contribute a minimum of 20 hours of community service per term. Students complete the course with a better understanding of how the world of volunteerism works.

1:00 – 2:30 pm, ED 217

Trey Hagen

Faculty Sponsor: Amanda Smith

Title: Fighting Against “The Man”: A curriculum Intertwining Art and Politics

Abstract: By nature, humans crave meaningful connections. In a culture increasingly dominated by activities which isolate and divide, the development and maintenance of the arts in education has become increasingly important. Through their inherent nature, the arts provide the skills essential to working and living with one another: collaboration, self-awareness, expression and tolerance. Thus, the goal of art is not only creating beauty (or purposeful ugliness), but finding and deciphering these mysteries in oneself, others and the world around them. In short, the artist learns what it means to be human.

Additional presentation:

1:00 - 2:30 p.m., ED 217

Leah Hinkle - see last page of document

Teacher Education

Session Chair: Gwenda Rice

Session Title: Academic Excellence in Master of Science in Education, English to Speakers of Other Languages (ESOL) and Bilingual/ESOL Endorsements

Location: Education (ED)

Posters:

4:30 – 7:00 pm, ED 217

Joyce Garland

Faculty Sponsor: Gwenda Rice

Title: Spartan Academy: What Can One Person do to Stem the Tide of Loss in the Face of Seemingly Overwhelming Odds?

Abstract: Spartan Academy is an alternative learning center where students can come to make up lost credits, work in a silent atmosphere, or take a course online that is not offered in our regular curriculum. The learning center is incorporated into the regular schedule and routine of our high school, and thus is a school within a school. The academy is the result of three years of research, proposals to the school board and search for funding. This school year is the first year the academy has been operational and I have explored its creation, implementation and current success in my professional project.

4:30 – 7:00 pm, ED 217

Michelle Halter

Faculty Sponsor: Sue Dauer

Title: Literature Circles: Does Meaningful Discussion Increase Reading Ability?

Abstract: The aim of this study was to investigate meaningful discussion, through use of literature circles, and its relationship to increased reading ability in elementary students. A purposeful sample of third through fifth grade students was chosen based on their beginning reading instructional level, which ranged from 3.0-4.0. Subjects completed formal reading assessments (QRI: Qualitative Reading Inventory) in the fall and spring, State of Oregon TESA assessments in reading during the fall and spring and surveys before and after a six-week intervention. Findings revealed that as subjects became more confident in their ability to converse, make connections and comprehend through a socially interactive environment, their instructional ability improved, on average, by at least two years. Additionally, subjects expressed increased enthusiasm and responsibility for their own learning as the year progressed.

4:30 – 7:00 pm, ED 217

Denise Majeski

Faculty Sponsor: Sue Dauer

Title: Family Literacy Workshops

Abstract: This is a professional project designed to guide teachers, parents and first-graders through a five-week series of literacy workshops. The workshops used materials

readily found in most homes. The goal was to empower parents as teachers – giving them simple tools to help their child develop better oral language skills. The activities were collaboratively created to enhance book reading/discussion and provide hands-on literacy activities focusing on: phonemic awareness, phonics, fluency, comprehension and vocabulary development. Post-event survey results found the workshops were indeed helpful to parents. Teachers felt the workshops were a valuable way to stay connected to families.

4:30 – 7:00 pm, ED 217

Kari Caulder

Faculty Sponsor: Sue Dauer

Title: Sheltered Instruction Observation on Protocol in a Middle School Language Arts Classroom

4:30 – 7:00 pm, ED 217

Connie Butterfield

Faculty Sponsor: Wangeci Gatimu

Title: Literacy in the Early Years: A case study of first grade students

Abstract: The study uses case study methodology to investigate the nuanced meaning of literacy learning in a first grade class. The case was grounded in actions and activities that are perceived to be important in the learning how to read, write and speak English effectively. In-depth interviews, surveys and observations were used as tools for collecting the qualitative data. The results of the study brought into focus possible avenues that a teacher and the school could pursue to bring about higher levels of mastery for literacy learning in early years.

4:30 – 7:00 pm, ED 217

Ingrid Adams

Faculty Sponsor: Wangeci Gatimu

Title: Understanding Domestic Violence: A Qualitative Investigation of Women in Shelters

Abstract: Intimate partner violence is a complex web of physical, psychological, and mental abuse perpetrated against one partner in an intimate relationship. The goal of the abuser is to gain control over his or her victim by means of psychological intimidation, social isolation or physical abuse. Over time victims' self-esteem erodes, self confidence is shattered and fear of the abuser governs decisions. While there are abused men, most victims of spouse abuse are women. The tragedy battered women confront is heartbreaking. Society labels partner violence as an intrapersonal affair. Countless women live in this inferno an entire lifetime.

4:30 – 7:00 pm, ED 217

Karena Morales

Faculty Sponsor: Maria Dantas-Whitney

Title: Building a Positive Self Image

Abstract: A look at a mini-thematic unit implemented in a self-contained ELL class consisting of K-2nd graders. The topic "Building a Positive Self Image" incorporates literacy,

science, and English language proficiency standards in a number of child-centered lessons plans where students discover melanin's effect on skin color and celebrate their uniqueness through language in a bilingual setting.

Theatre

Session Chair: Michael Phillips

Session Title: Professional Audition Presentations

Location: Rice Auditorium (RA)

Performances:

1:00 – 1:30 pm, RA 113

Students in TA 360 – Contemporary Audition

Faculty Sponsor: Ted de Chatelet

Title: Professional Audition Presentations

Description: The audition is the actor's gateway for roles in professional and amateur productions. But they are also short, mini-performances, often charming, funny, or dramatic in tone. Students will be demonstrating various audition pieces in a variety of styles.

Theatre

Session Chair: Michael Phillips

Session Title: Fight Scenes!

Location: Rice Auditorium (RA)

Performances:

1:45 – 2:15 pm, Outdoor Amphitheatre at Rice Auditorium

Students of TA 368 – Physical Studio IV

Faculty Sponsor: Ted de Chatelet

Title: Fight Scenes!

Description: Stage combat is an integral part of actor training, used in historical and contemporary productions. Featuring sword fights (using épées) in a variety of styles, students will demonstrate fight sequences as they would be performed in a theatrical production.

Theatre

Session Chair: Michael Phillips

Session Title: Projects in Theatre History

Location: Rice Auditorium (RA)

Presentations:

2:30 – 4:00 pm, RA 113

Jessica Leep

Faculty Sponsor: Michael Phillips

Title: Dramaturgy: *Antigone* by Sophocles

Description: This project dives deep into the play *Antigone*. It includes two combined versions of the play; a thorough play analysis; pictures and stories to aid in understanding the play; research on the author, and on the social and cultural

context of the play; a glossary of unfamiliar terms; an actors packet; and study guides for high school students.

2:30 – 4:00 pm, RA 113

Crystal Cooper

Faculty Sponsor: Michael Phillips

Title: Prosthetic Makeup

Description: Prosthetic makeup techniques are an important part of theatrical makeup, able to transform the look of actors in very particular ways. This presentation will explore the creation of prosthetic pieces, beginning with a face mold (a "death mask") upon which the prosthetics are constructed. Pictures of the entire process will also be presented and discussed.

2:30 – 4:00 pm, RA 113

Chrystal Wadsworth

Faculty Sponsor: Michael Phillips

Title: Perspective: Recreating the Linear View

Description: This presentation will be a scale model of a Restoration period stage with historically accurate scenery. It will be painted in perspective style using a one or two point perspective to create the optical illusion of depth and three-dimensional scenery. This style became popular during the Renaissance and continued through to the Restoration stage. This presentation will be a representation of one of the commonly used scenic designs used in the Drury Lane and Covent Garden Theaters.

2:30 – 4:00 pm, RA 113

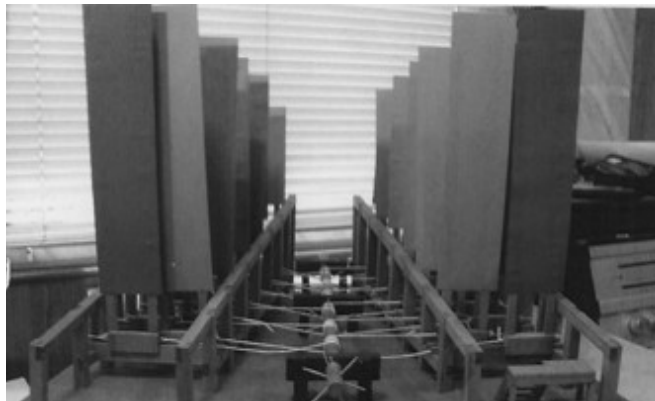
Chuck May

Faculty Sponsor: Michael Phillips

Title: Scale Model of a Renaissance 'Pole-and-Chariot' Wing Change System

Description: Giacomo Torelli created the "pole-and-chariot" scene change system during the Italian Renaissance. It allows an entire setting to be changed in a matter of seconds by mechanisms located below the stage and operated by a small number of stagehands. This presentation is of a fully operational scale model of a pole-and-chariot system similar to the ones used in the Renaissance.

Photograph of work:



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Teacher Education

Additional presentation:

1:00 - 2:30 p.m., ED 217

Leah Hinkle

Faculty Sponsor: Amanda Smith

Title: Changing roles and relationships after the "Coming of Age"

Abstract: Winter trimester I took a class called Content Pedagogy in the MAT program, which taught me how to design my own curriculum as a Language Arts teacher. Our main assignment was to make a content blueprint for an entire term and expand one unit of that outline into full-blown lesson plans. I created a content outline for the senior English survey class I would be teaching in the spring. The "overarching big idea" of the curriculum was the changing roles and relationships that occur after the "coming of age"-a timely topic considering the age and grade of my students. I created an expanded unit for a study of Herman Hesse's *Siddhartha*, which I recently finished teaching.